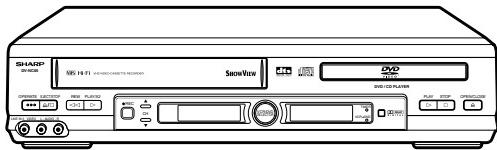
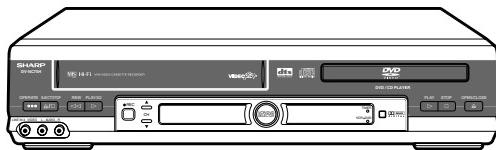


SHARP SERVICE MANUAL

S92P3DV-NC65H

DV-NC65H
DV-NC65S

DV-NC70H

VHS HQ HIGH QUALITY

VCR/DVD COMBINATION MODEL

DV-NC65H DV-NC65S MODELS DV-NC70H

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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1. IMPORTANT SERVICE NOTES

Note:

This unit can be used only where the power supply is AC 230V-240V, 50Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT STARE INTO THE LASER BEAM OR VIEW WITH OPTICAL INSTRUMENT.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Laser Diode Properties

Material: AlGaNp

Wave length: 650 nm

Emission Duration: Continuous

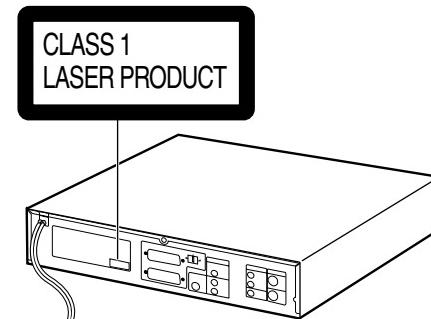
Laser output: Max. 0.7 mW

Power Lead Protection

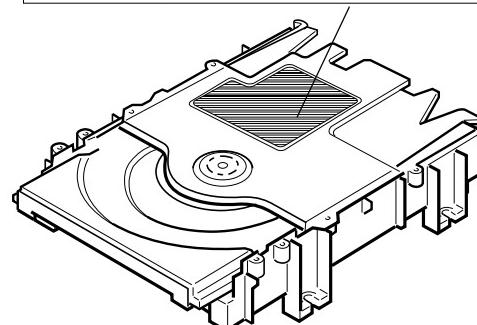
To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power lead.
- Keep the AC power lead away from heating appliances.
- Never put any heavy object on the AC power lead.
- Do not attempt to repair or reconstruct the AC power lead in any way.

- This Unit is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.



(Rear of product)



VARO! AVATTAESSA OLET ALTIINA LASERSÄTEILYLLE.

ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING - LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD.

STIRR EJ IN STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

2. FEATURES

■ Common Features

- A DVD, CD player and VCR all in one.
- Simultaneous VCR recording and DVD playback.

■ VCR

- **VHS** Hi-Fi Stereo Sound/Double-Azimuth 4-Heads
- 1 minute Rewind (E-180)
- S-VHS Simple Playback
- HQ (High Quality) Circuitry
- Simple Recording Timer
- Sharp Super Picture

■ DVD

- Plays DVD, CD (Digital Audio) discs as well as CD-R/CD-RW discs recorded in MP3 file format
- 3D Virtual Surround provides high-quality surround sound
- Digital Gamma correction
- Dolby Digital^{*1}/DTS^{*2}, MPEG Audio digital out capability
- High-quality digital images
- High-quality digital sound

^{*1} Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

^{*2} "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

3. SPECIFICATIONS

Signal System	PAL (DV-NC65H/70H) PAL/MESECAM (DV-NC65S)
---------------	--

INPUT/OUTPUT JACKS

DVD/VCR shared output jacks	VIDEO jack: RCA Pin-jack AUDIO jack: RCA Pin-jack
DVD output jacks	VIDEO jack: S-Video jack AUDIO jack: RCA Pin-jack DIGITAL AUDIO IF: Coaxial digital (DV-NC65H/S) : Coaxial digital and Optical digital (DV-NC70H)
VIDEO input jacks	AUDIO output jack: RCA Pin-jack VIDEO jack: SCART AUDIO jack: SCART VIDEO jack: RCA Pin-jack AUDIO jack: RCA Pin-jack

VCR

Video Recording System	Rotary Two-Head Helical Scanning
Number of Video Heads	4
Video Signal Standard	PAL Colour System (DV-NC65H/70H) PAL/MESECAM Colour System (DV-NC65S)
Audio Recording System	1 Stationary Head for Linear Audio 2 Rotary Heads for Hi-Fi stereo
Tape Width	12.7 mm
Tape Speed (PAL)	(SP) 23.39 mm/sec. (LP) 11.7 mm/sec. (EP) 7.8 mm/sec.
(NTSC)	(SP) 33.35 mm/sec. (Playback only) (LP) 16.67 mm/sec. (Playback only) (EP) 11.12 mm/sec. (Playback only)
Recording/Playback Time	(SP) 240 min. (With E-240 Cassette) (LP) 480 min. (With E-240 Cassette) (EP) 720 min. (With E-240 Cassette)

Channel Coverage	UHF E21-E69 (DV-NC65H/70H) VHF E2-E12 + S1-S41; UHF E21-E69 (DV-NC65S)
Antenna Input	75Ω
Video Input	Input level: 0.5 to 2.0 Vp-p (75Ω)
Video Output	Output level: 1.0 Vp-p (75Ω)
Audio Output	Input level: -3.8 dBs (47kΩ)
(0 dBs = 0.775 Vrms)	
Audio Output	Output level: -3.8 dBs (1kΩ)
(0 dBs = 0.775 Vrms)	
Hi-Fi Audio	Dynamic Range: 90 dB Frequency Response: 20 Hz-20 kHz
Memory Backup	10 minutes
DVD	
DVD/VCR shared Video output	Output level: 1 Vp-p (75Ω)
S video output	Y output level: 1 Vp-p (75Ω)
C output level: 0.3 Vp-p (75Ω)	C output level: 0.3 Vp-p (75Ω)
Audio output	Output level: 2 Vrms (1 kHz, 0 dB)
Video signal horizontal resolution	500 lines (450 lines min.)
S/N ratio	60 dB (50 db min.)
Audio signal frequency characteristics	For DVD linear PCM playback: 4 Hz to 22 kHz (48 kHz sampling) CD playback: 4 Hz to 20 kHz (JEITA)
S/N ratio	CD: 96 dB, 1 kHz (JEITA)
Dynamic range	DVD linear PCM: 96 dB (JEITA)
Total harmonic distortion ratio	CD: 96 dB (JEITA)
Pickup	CD: 0.006% (JEITA)
Operating temperature	Wave length: 650 nm (DVD) / 780nm (CD)
Storage temperature	Laser output: Max. 0.7 mW
Power supply	
Power consumption	5 °C to 35 °C (41 °F to 95 °F)
Dimensions	-20 °C to 55 °C (-4 °F to 131 °F)
Weight	230 V-240 V AC, 50 Hz
	21 W
	W × H × D: 430 mm × 93.5 mm × 350 mm (DV-NC65H/S)
	W × H × D: 430 mm × 93.5 mm × 356 mm (DV-NC70H)
	5.3 kg

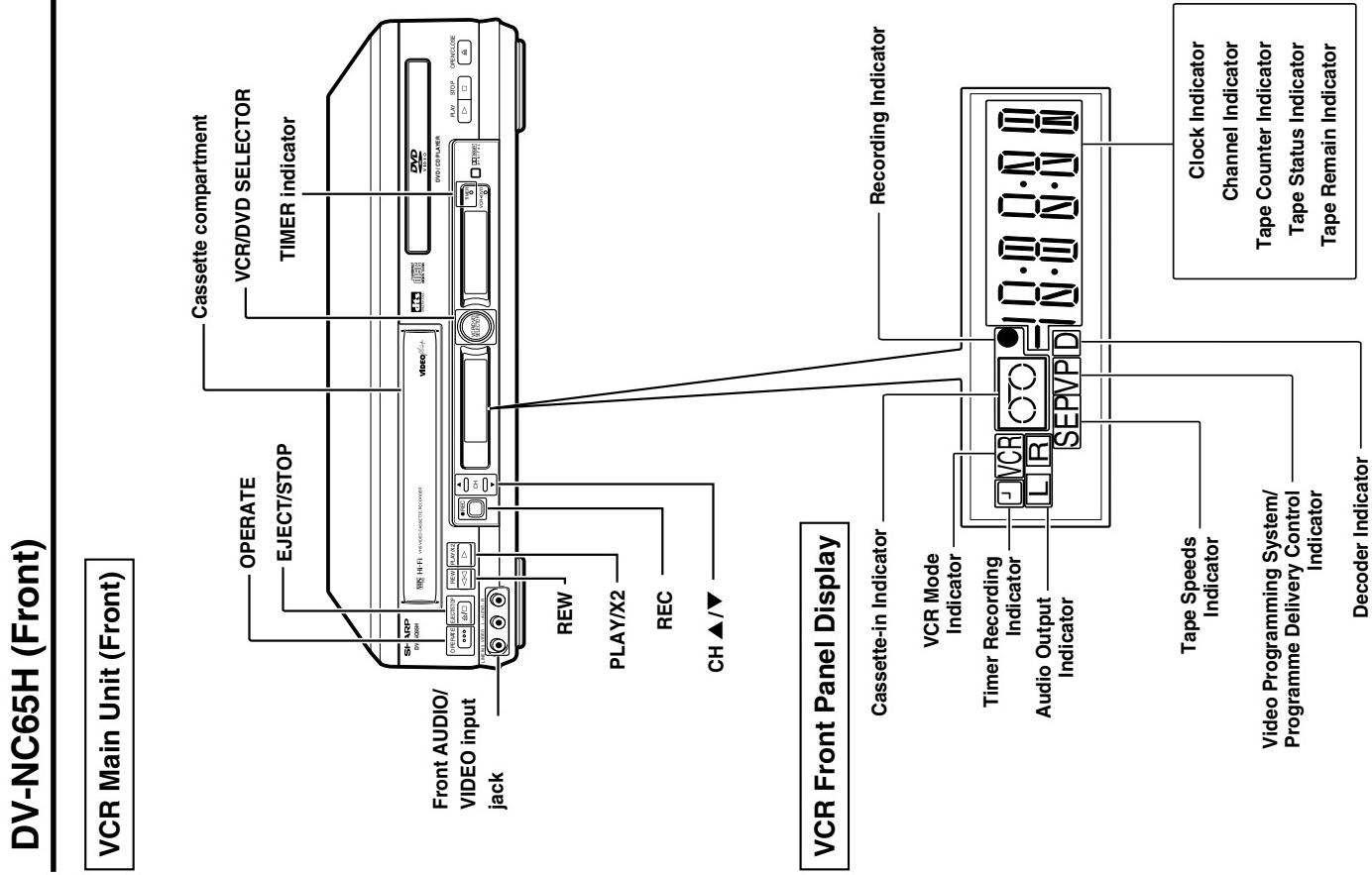
Specifications are subject to change without notice.

Weight and dimensions are approximate.

3-1. ACCESSORIES

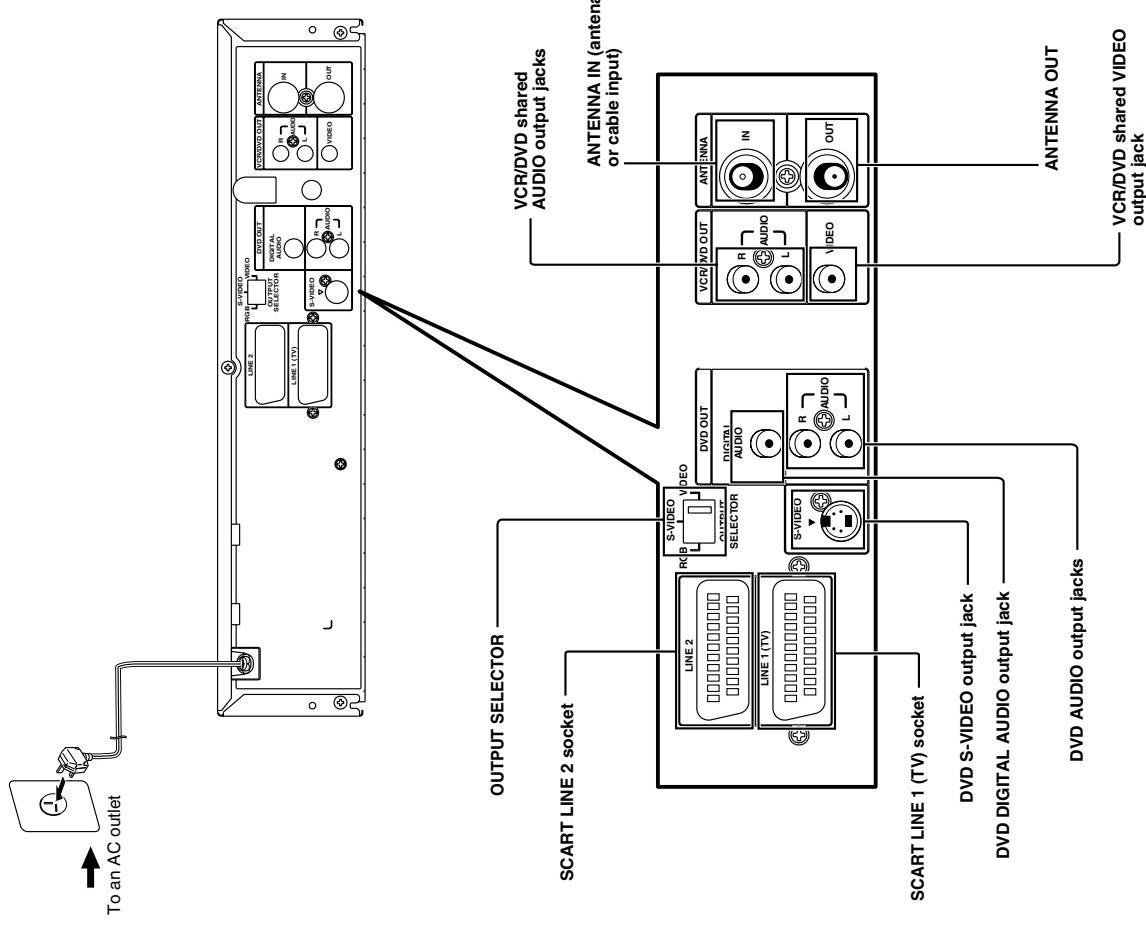
Accessories: Remote control unit × 1, "AA" size battery (R-6, UM/SUM-3) × 2,
 AV cable × 1, RF cable (75 Ohm, 1 m) × 1

4. PART NAMES



DV-NC65H (Rear)

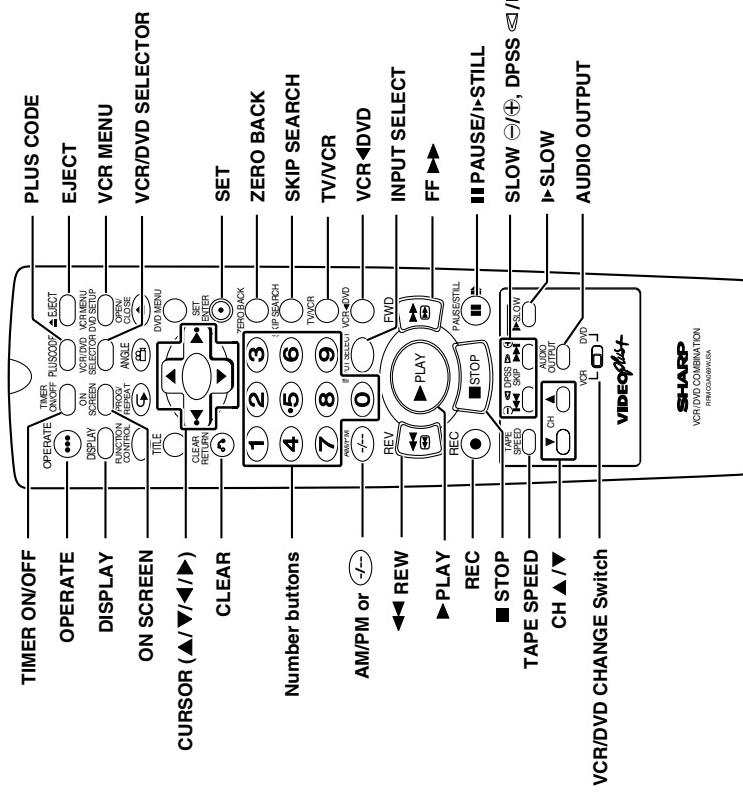
Main Unit (Rear)



DV-NC65H (Remote Control)

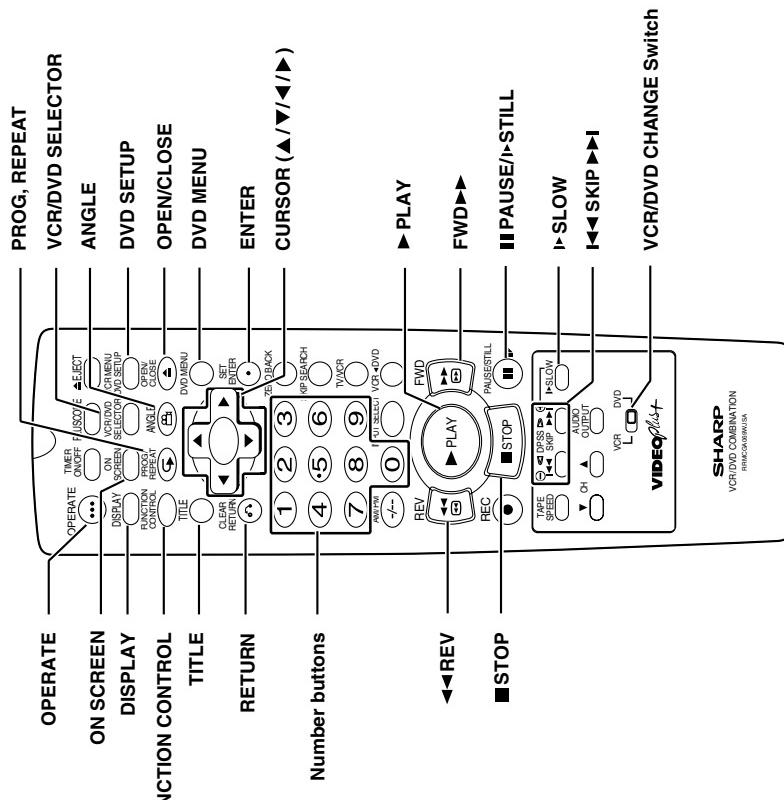
Remote (VCR Operation Buttons)

- The explanations on this page use the VCR/DVD CHANGE Switch in the VCR position.



Remote (DVD Operation Buttons)

- The explanations on this page use the VCR/DVD CHANGE Switch in the DVD position.

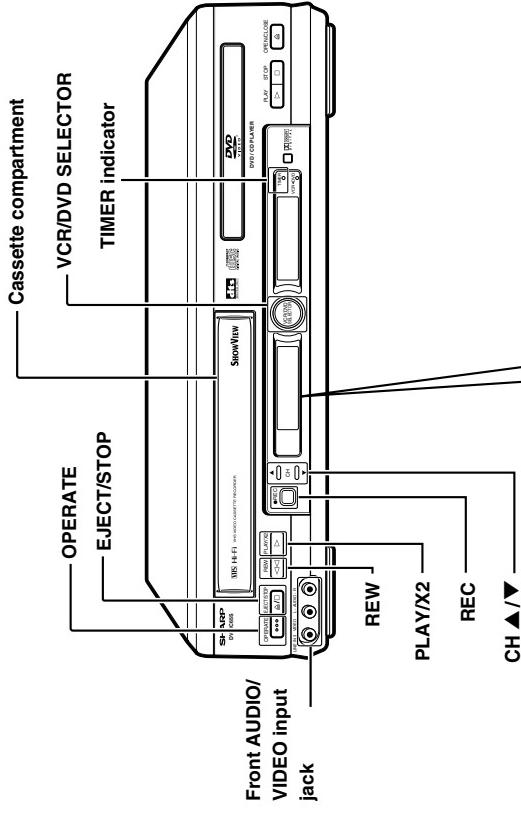


NOTE

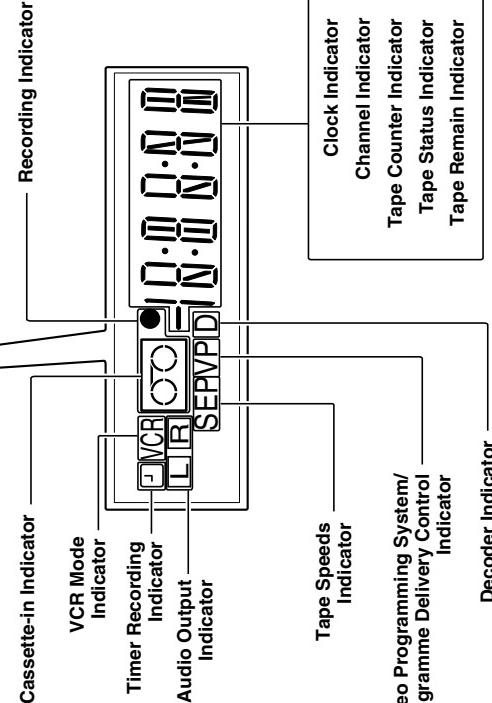
- Do not subject the Remote to shock, water or excessive humidity.
- The Remote may not function if the Unit sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix brands in use.
- Remove the batteries if you do not use the Remote for an extended period of time.

DV-NC65S (Front)

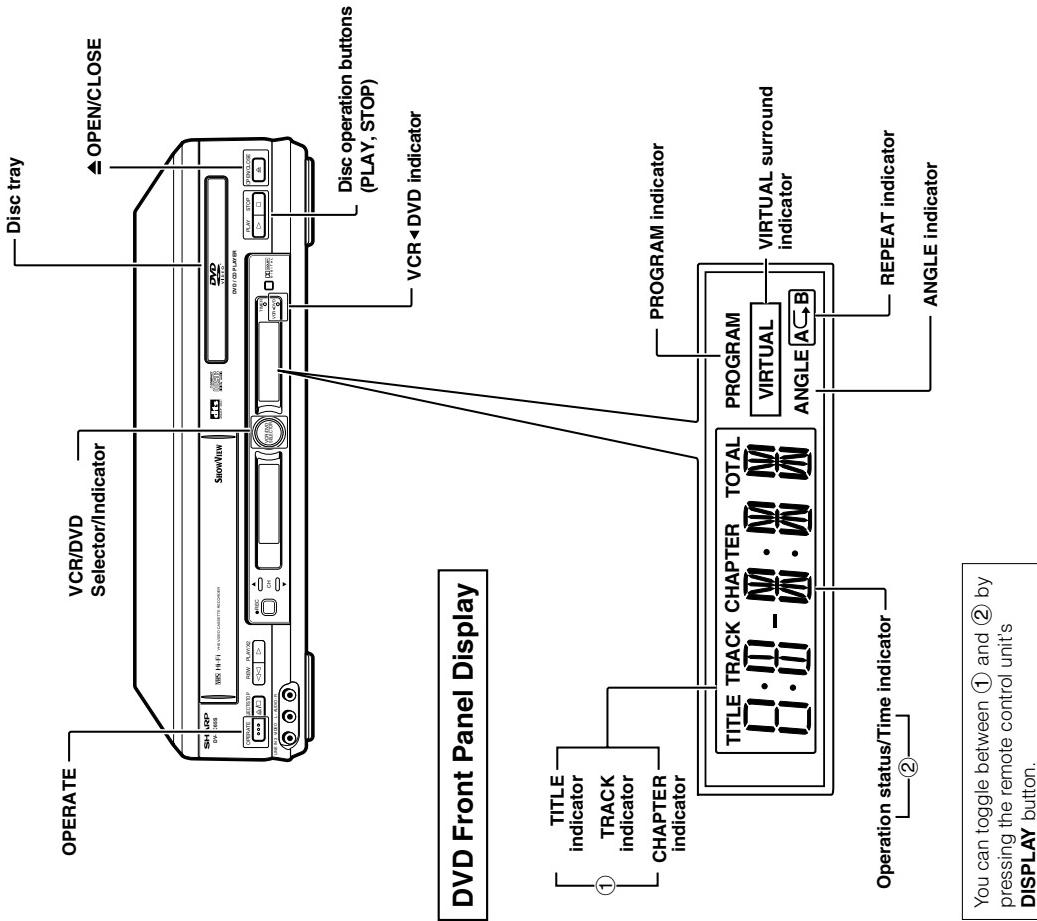
VCR Main Unit (Front)



VCR Front Panel Display

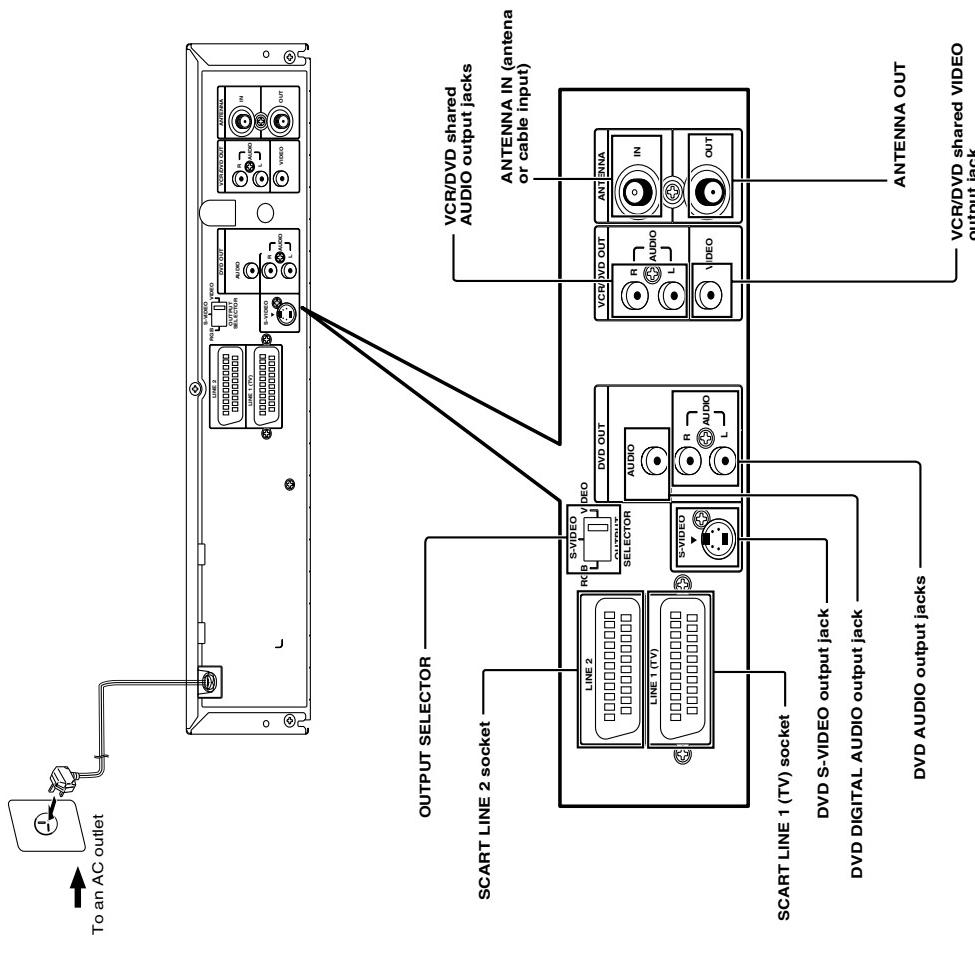


DVD Main Unit (Front)



DV-NC65S (Rear)

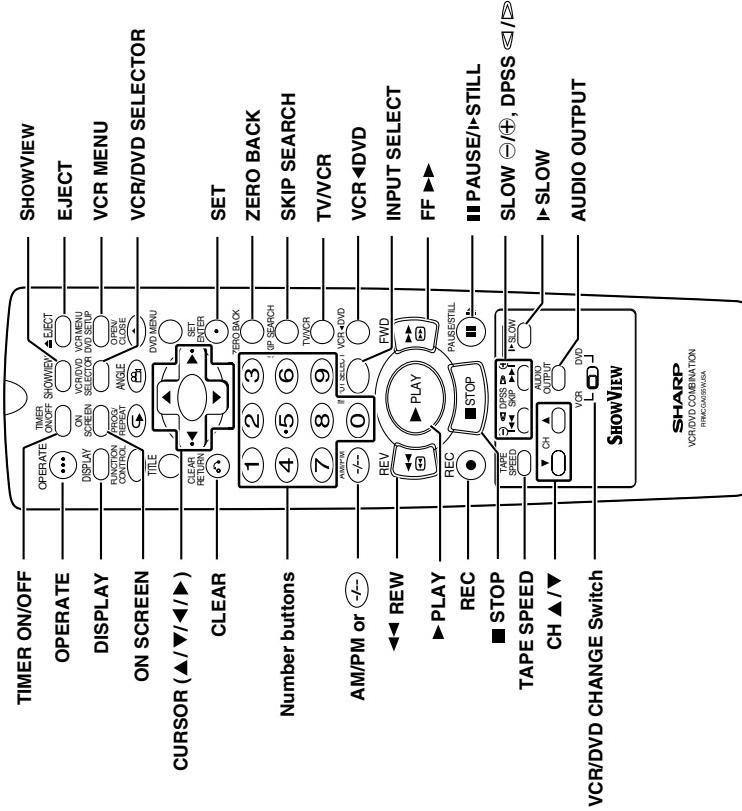
Main Unit (Rear)



DV-NC65S (Remote Control)

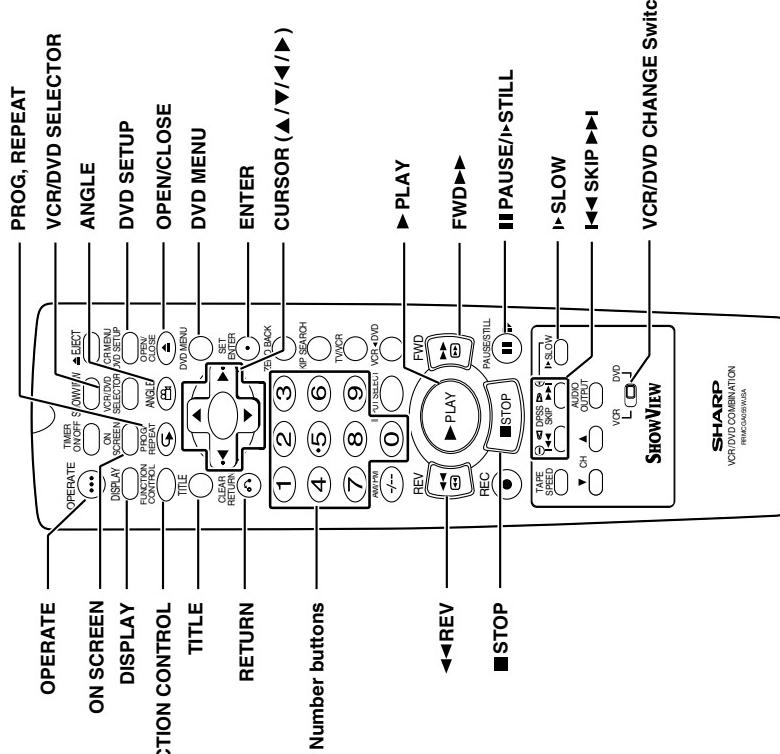
Remote (VCB Operation Buttons)

The explanations on this page use the **YCB/RBV CHANGE** Switch in the VCB position.



Remote (DVD Operation Buttons)

- The explanations on this page use the VCB/PVB CHANGE Switch in the PVP position.

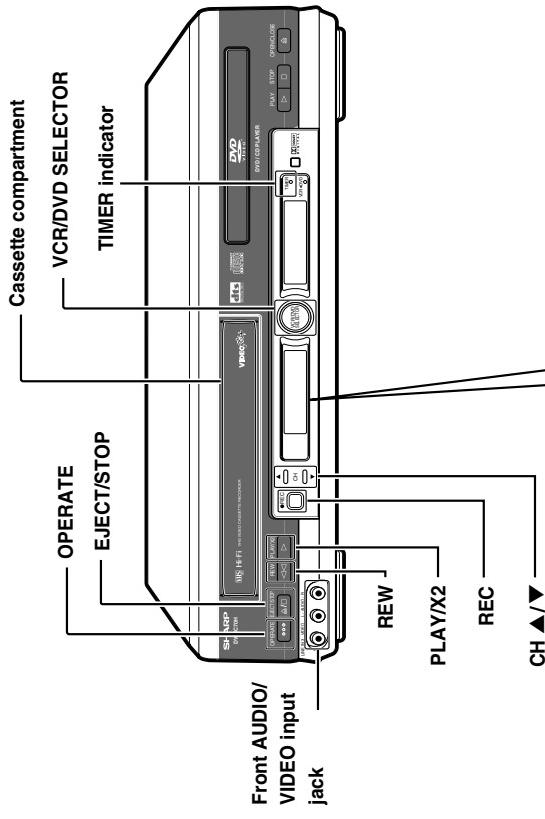


NOTE

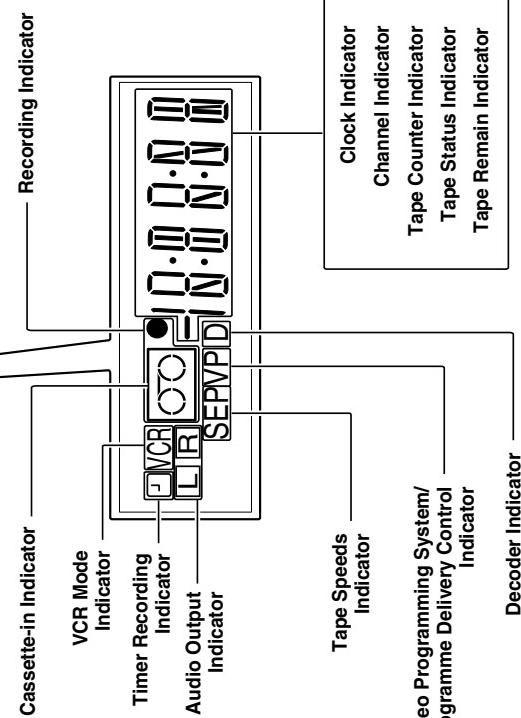
- Do not subject the Remote to shock, water or excessive humidity.
 - The Remote may not function if the Unit sensor is in direct sunlight or any other strong light.
 - Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
 - Do not mix old and new batteries, or mix brands in use.
 - Remove the batteries if you do not use the Remote for an extended period of time.

DV-NC70H (Front)

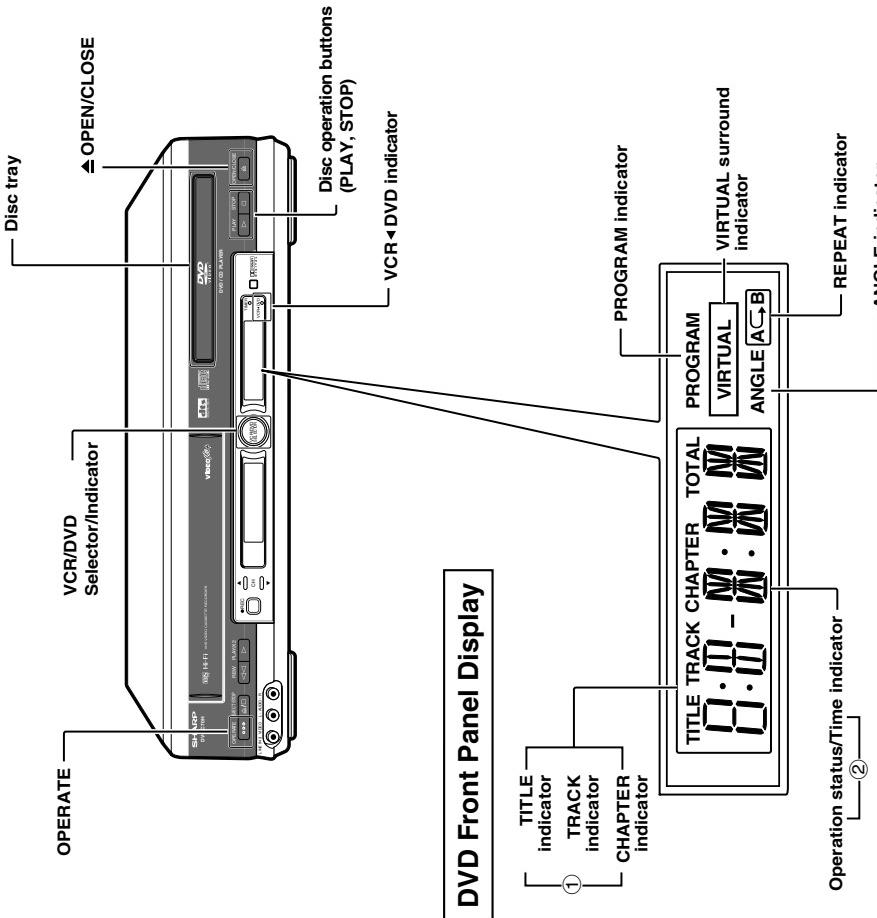
VCR Main Unit (Front)



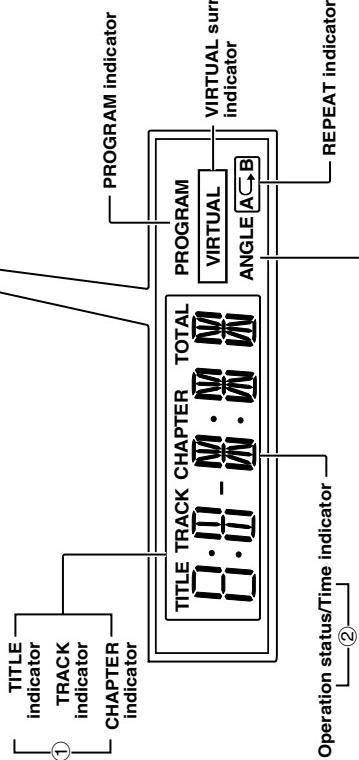
VCR Front Panel Display



DVD Main Unit (Front)



DVD Front Panel Display



You can toggle between ① and ② by pressing the remote control unit's **DISPLAY** button.

① ②

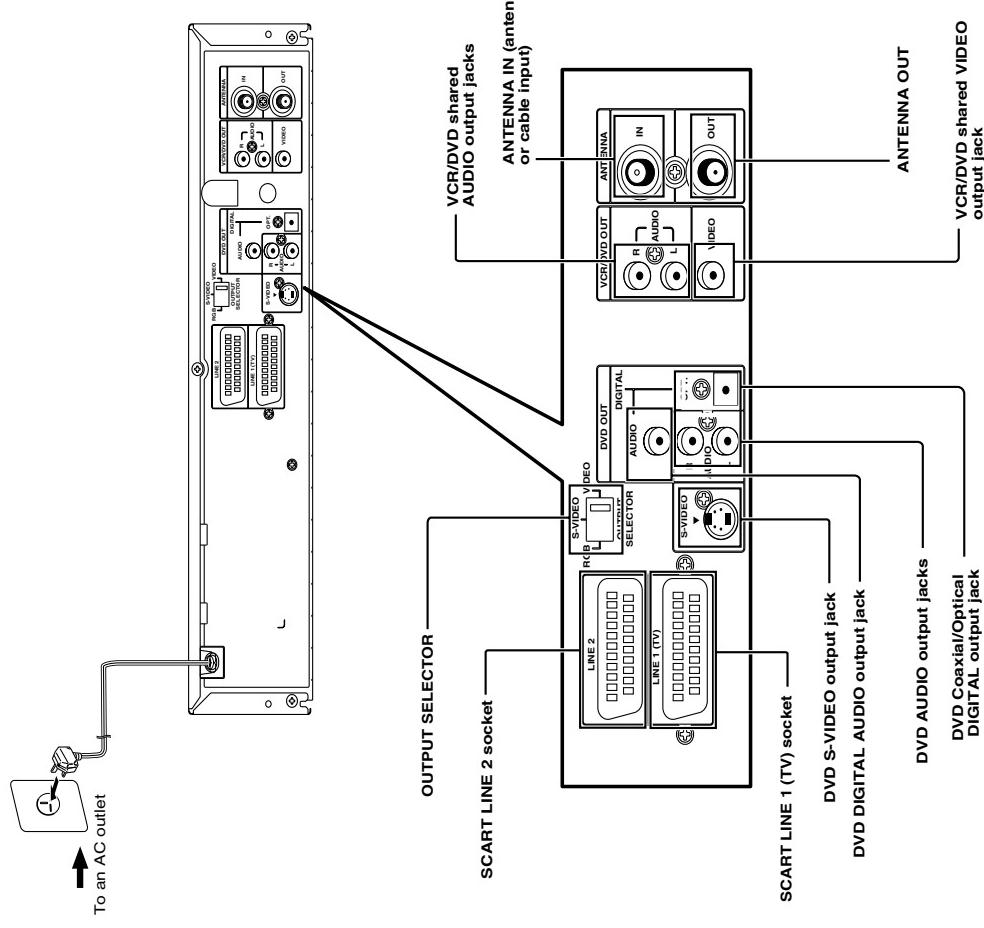
Clock Indicator
Channel Indicator
Tape Counter Indicator
Tape Status Indicator
Tape Remain Indicator

Tape Speeds Indicator

Video Programming System/
Programme Delivery Control
Indicator

DV-NC70H (Rear)

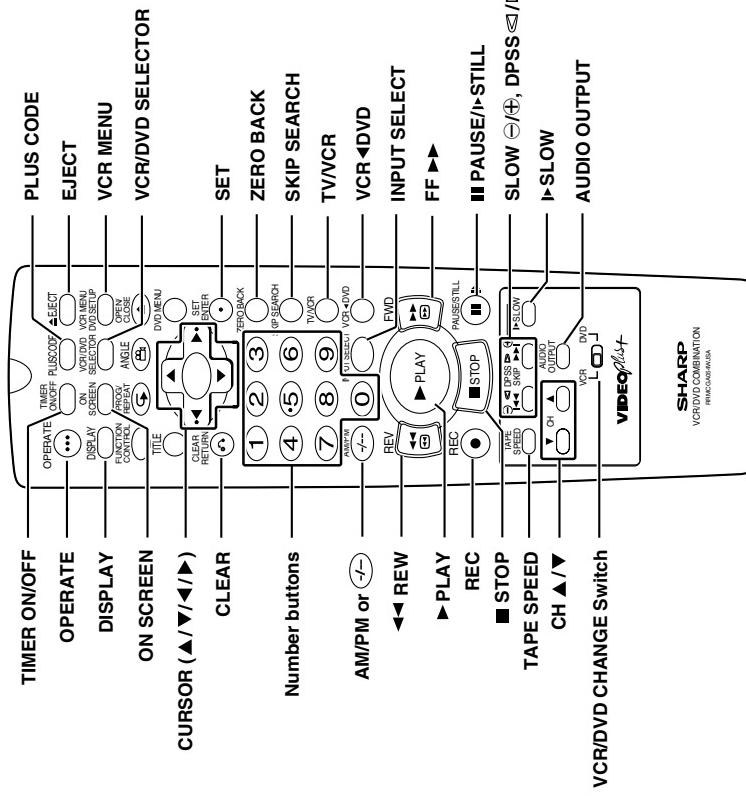
Main Unit (Rear)



DV-NC70H (Remote Control)

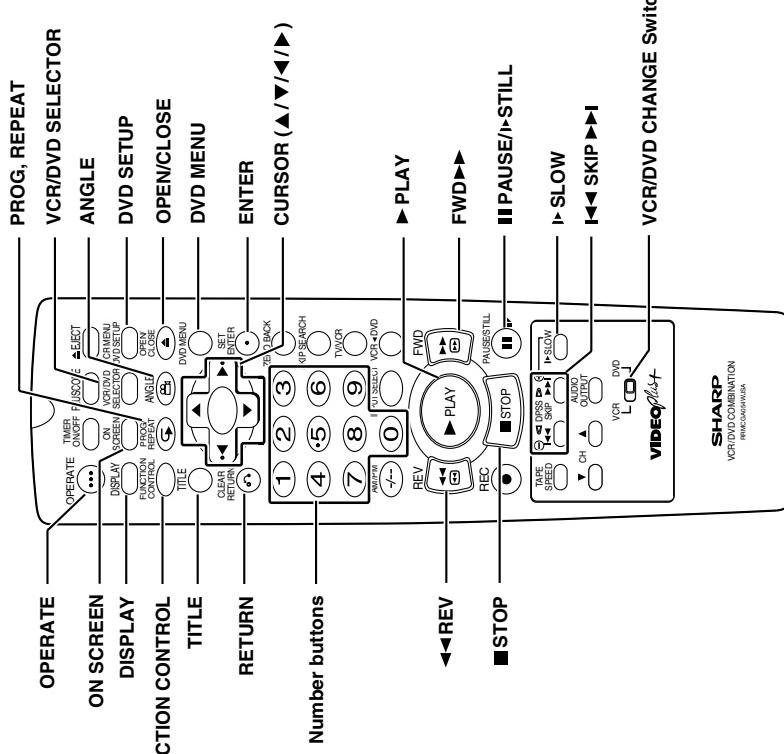
Remote (VCR Operation Buttons)

- The explanations on this page use the VCR/DVD CHANGE Switch in the VCR position.



Remote (DVD Operation Buttons)

- The explanations on this page use the VCR/DVD CHANGE Switch in the DVD position.



NOTE

- Do not subject the Remote to shock, water or excessive humidity.
- The Remote may not function if the Unit sensor is in direct sunlight or any other strong light.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries, or mix brands in use.
- Remove the batteries if you do not use the Remote for an extended period of time.

5. MAINTENANCE CHECK ITEMS AND EXECUTION TIME

MECHANICAL PARTS REQUIRING PERIODICAL INSPECTION

Use the following table as a guide to maintain the mechanical parts in good operating condition.

Parts	Maintained	1,000 hrs.	2,000 hrs.
Pickup		<input type="circle"/>	<input type="circle"/>
Spindle Unit		<input type="checkbox"/>	<input type="circle"/>
Sled Motor			<input type="circle"/>
Loading Motor			<input type="circle"/>
Belt		<input type="checkbox"/>	<input type="circle"/>

Note

: Part Replacement

: Cleaning

(For cleaning, use a lint-free cloth dampened with pure isopropyl alcohol.)

CARES WHEN USING THE PICKUP

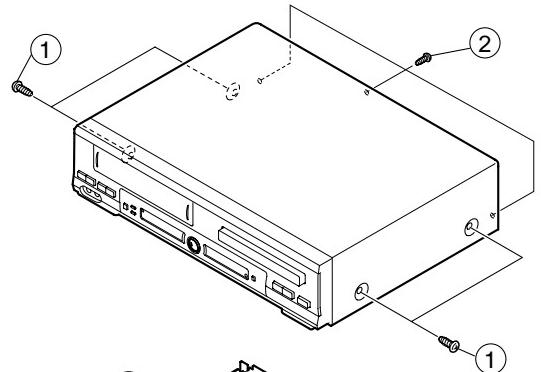
1. The laser light having wavelength 650 nm is emitted from the objective lens. BE CAREFUL SO THAT THE LASER LIGHT DOES NOT ENTER DIRECTLY INTO YOUR EYE.
2. The semiconductor laser may be easily damaged by electrostatic charges. When handling the pickup, take care so that the electrostatic charge is not generated.
3. The semiconductor laser may be easily damaged by overcurrent. Use the power supply unit which does not give any spike current when the power is turned on and off.
4. Carefully remove the dust and dirt from the objective lens with the lens blower.
When handling the objective lens, take due care so that it is not contaminated with fingerprint, etc. If the objective lens is contaminated, impregnate the cleaning paper with a small quantity of solvent (isopropyl alcohol), and gently wipe to clean.
5. The ozone layer depleting components (ODC) are not used in the production process for the product.

6. DISASSEMBLY METHOD

6-1. DISASSEMBLY METHOD

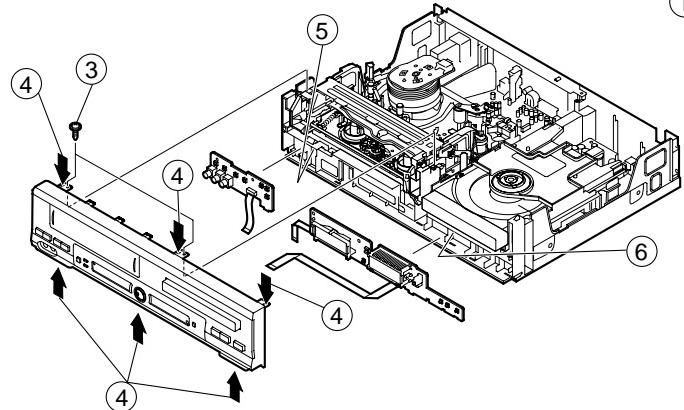
1) Removing the top cabinet.

- (1) Remove the four screws ① and the three screws ②.



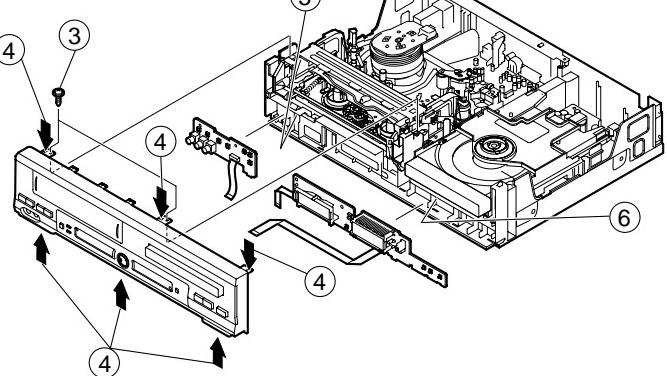
2) Removing the front panel.

- (1) Remove the two screws ③.
- (2) Release the six hooks ④.



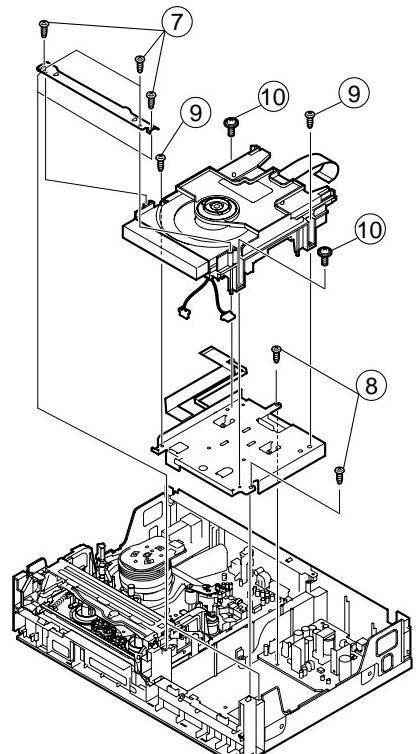
3) Removing the front PWB.

- (1) Release the one hook ⑤ and tilt the PWB toward you to remove it.
- (2) Release the one hook ⑥ and tilt the PWB toward you to remove it.

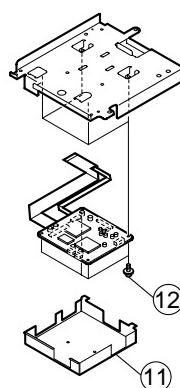


4) Removing the DVD mechanism.

- (1) Remove the four screws ⑦ to remove the DVD REINF. angle.
- (2) Remove the two screws ⑧ and the two screws ⑨.
- (3) Remove the two screws ⑩ to remove the angle (DVD).
- (4) Remove the DVD shield (lower) ⑪.



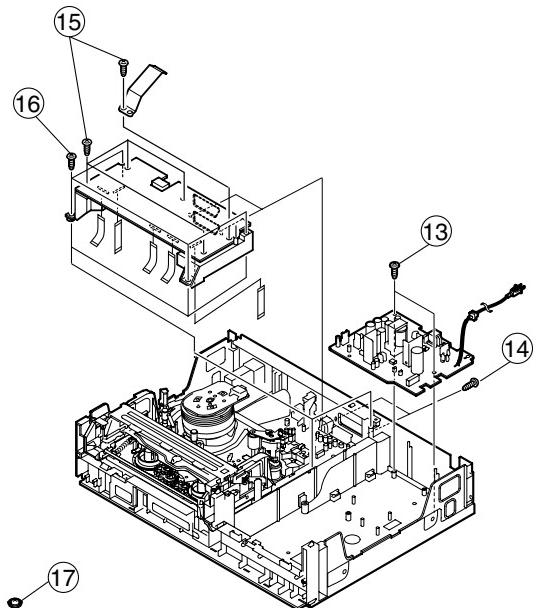
- (5) Remove the four screws ⑫ to remove the DVD main PWB unit from the angle (DVD).



(6) Remove the two screws ⑯ to remove the power PWB unit.

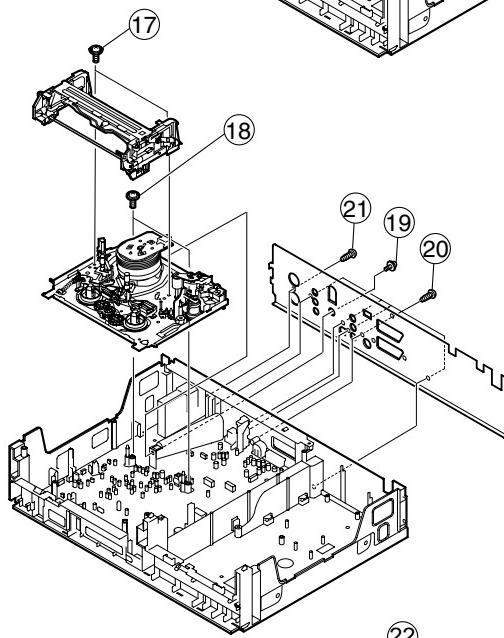
5) Removing the rear PWB unit.

- (1) Remove the two screws ⑭ (for 21 pin) at rear side.
- (2) Remove the five screws ⑮ to remove the rear PWB unit and the earth plate.
- (3) Remove the five connectors of the FFCs.
- (4) Remove the rear PWB unit.
- (5) Remove the four screws ⑯ to remove the rear PWB holder.



6) Removing the cassette housing control/ the VCR mechanism.

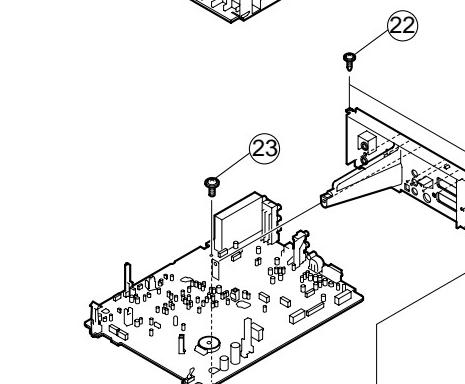
- (1) Remove the two screws ⑰.
- (2) Remove the two screws ⑱.
- (3) Remove the one screw ⑲.



7) Removing the rear panel/ the antenna terminal cover/ the VCR main PWB unit.

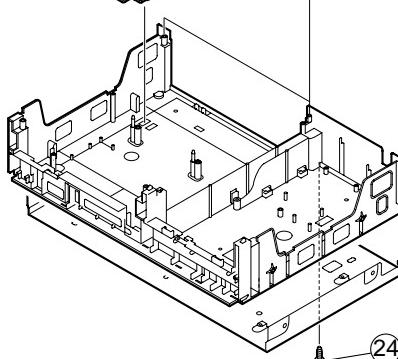
- (1) Remove the five screws ㉐ at rear side.
(four screws in DV-NC65H/S)
- (2) Remove the one screw ㉑ for Tuner.
- (3) Remove the rear panel.
- (4) Remove the two screws ㉒.

- (5) Remove the antenna terminal cover.
- (6) Remove the one screw ㉓.
- (7) Remove the VCR main PWB unit.



8) Removing the bottom plate.

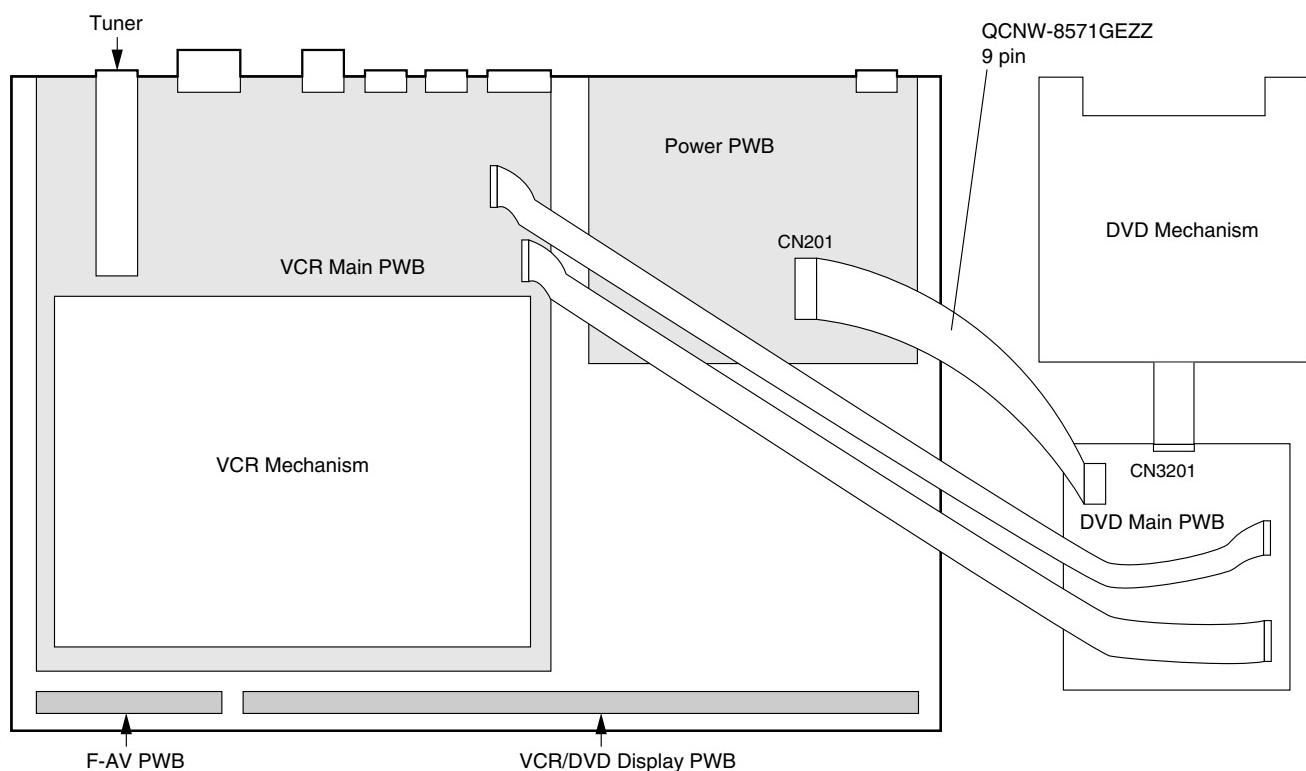
- (1) Remove the one screw ㉔.



6-2. EXTENSION CABLE USE POINT (ONE PLACE)

Parts Code	Price Code	Name/Description
QCNW-8571GEZZ	AN	Extension cable (wire), 9pin 500mm DVD Main CN3201-Power CN201

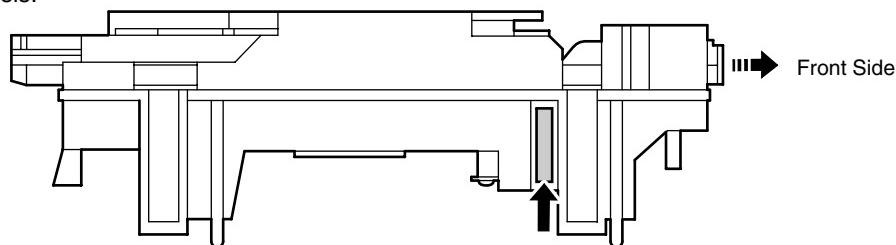
Extension Cable Diagram



6-3. REPLACEMENT OF MAIN PARTS

<Take out disk>

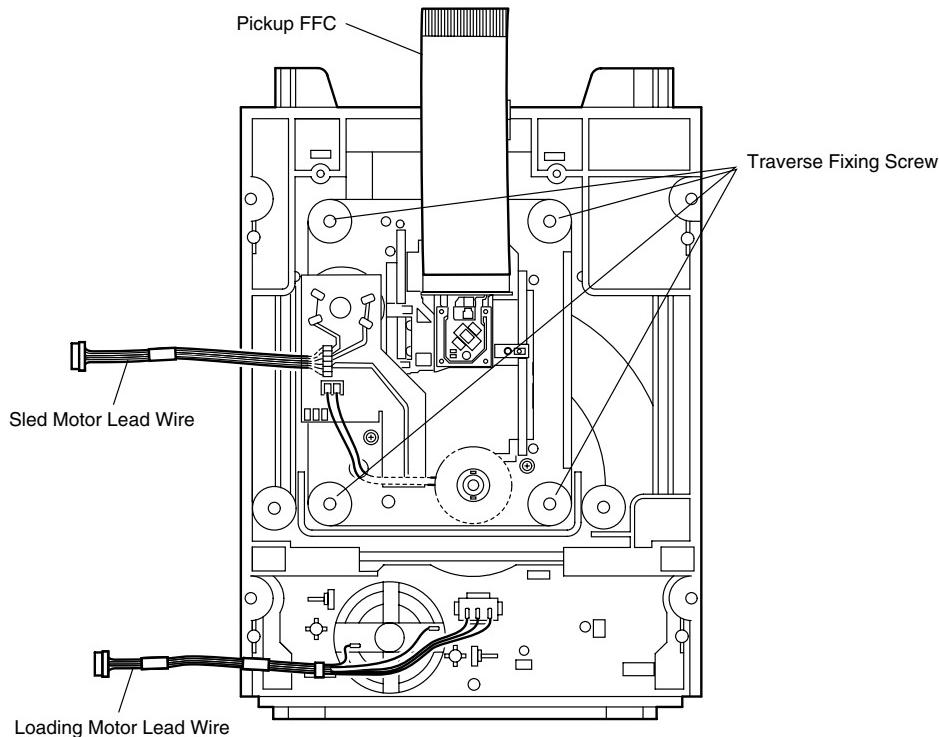
1. Remove the mechanism with angle from the set. (refer to ⑬ on page 130. Remove **K**, **M**, **N**)
2. It is in such cases as the thin driver, and it is pushed in slowly, and a tray is drawn in the arrow direction the Slide Rack on the left of the base chassis.
3. Take out disk.



<Disassembling and assembling the mechanism chassis>

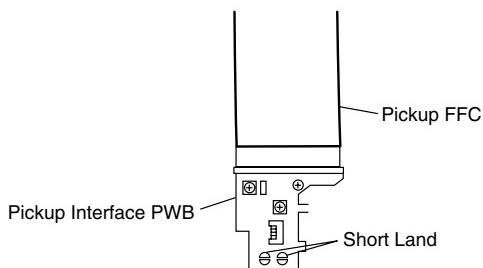
1. After setting the mechanism chassis to the angle state, ground it to prevent the electrostatic discharge damage of the pickup.
2. Remove the DVD Shield (lower) ⑩ (refer to the illustration on page 130).
3. Remove **P**, **Q** from the DVD Main PWB Unit ⑦. (Pickup Relay FFC ⑧ isn't removed.) (refer to the illustration on page 130)
4. Remove screws fixing the base chassis (located at the back right and at front left when facing the set).
5. With the Pickup FFC connected, turn over the base chassis and short (solder) two short lands on the pickup interface PWB in order to prevent the electrostatic discharge damage of the pickup.
6. Remove the Pickup FFC from the Main PWB.
7. Remove the Pickup FFC from the Pickup Interface PWB.
8. Remove the Traverse Fixing Screws to remove the Traverse Chassis ass'y.

Note: After assembling and wiring, remove the solder joint of the short land. If short-circuited, a disk is not played back.



<Replacing the Pickup and the Spindle Motor>

Since the Pickup optical axis and turntable inclination of DVD are adjusted with higher accuracy, make a replacement as a mechanism service chassis ass'y.

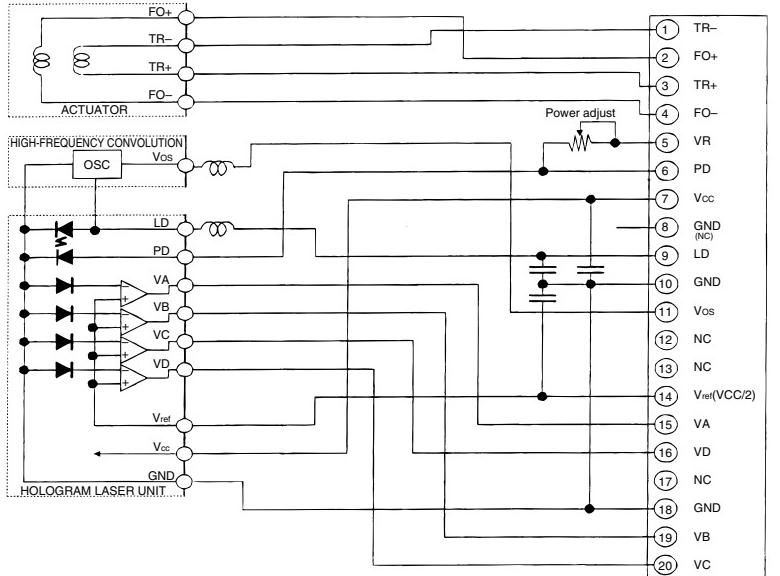


7. OPERATION OF PICKUP

7-1. CIRCUIT CONFIGURATION OF PICKUP

The pickup unit reads signals from the disk, and the flexible cable is connected to the board. The following signals flow through the cable.

7-2. EQUIVALENT CIRCUIT OF PICKUP



7-3. POLARITIES OF SIGNAL

Focus FO+, FO-	When electric current is flowed from FO+ to FO-, the lens comes to near the disk.
Tracking TR+, TR-	When electric current is flowed from TR+ to TR-, the lens goes toward the outer circumference.

7-4. SIGNALS OF PICKUP

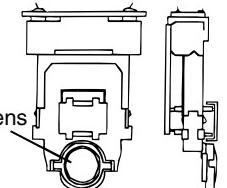
7-4-1. Tracking drive signal (TR+, TR-)

The signal drives the tracking servo mechanism which projects the beam on the track by moving the objective lens (OL) to the outer or inner circumference (at a right angle against the track) of the disk.

7-4-2. Focus drive signal (FO+, FO-)

The signal drives the focus servo mechanism which aligns the focus on the pit of the disk by elevating OL (vertically against the disk surface.)

The VR terminal is connected to GND.



Actuator assembly

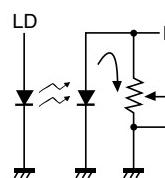
7-4-3. Monitor Diode (PD)

Since the laser diode largely varies output of the laser light even if the flowing current is slightly varied, the projection light is detected with the monitor diode to control the laser light to be equally output.

Since the current varies on the monitor diode according to the intensity of the received light of the laser diode, the drive current of the laser diode is reduced if the current of the monitor diode increases. On the contrary, the drive current of the laser diode is increased if the current of the monitor diode decreases.

As the projection light of the laser diode becomes stronger, the current of the monitor diode increases to increase the current which flows into the monitor diode output (PD). This is input to the pin 44 of IC301 and is compared with the reference voltage to control the drive current of the laser diode.

The circuit is called ALPC (Automatic Laser Power Control).



When the quantity of laser light increases, the current shown in figure increases and the PD terminal voltage rises.

IC301 is used to control. The LD terminal voltage lowers, and the quantity of light reduces. (IC301 is actuated by voltage input.)

7-4-4. Laser diode drive current control (LD)

Power supply to drive the laser diode

7-4-5. High-frequency convolution module power supply (VOSC)

The high-frequency convolution imposes the high-frequency signal on the DC current to impose the high frequency on the drive current of the laser. Thus, the interference of outgoing light and reflected light is prevented.

7-4-6. HF Signal (VA, VB, VC, VD)

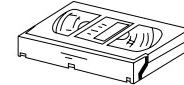
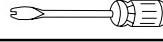
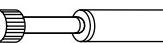
Signals recorded in the disk

8. ADJUSTMENT, REPLACEMENT AND ASSEMBLY OF MECHANICAL UNITS

The explanation given below relates to the on-site general service (field service) but it does not relate to the adjustment and replacement which need high-grade equipment, jigs and skill. For example, the drum assembling, replacement and adjustment service must be performed by the person who have finished the technical courses.

8-1. MECHANISM CONFIRMATION ADJUSTMENT JIG

So as to perform completely the mechanism adjustment prepare the following special jigs. So as to maintain the initial performance of the machine the maintenance and check are necessary. Utmost care must be taken so that the tape is not damaged. If adjustment needs any jig, be sure to use the required jig.

No.	Jig Item	Part No.	Code	Configuration	Remarks												
1.	Torque Cassette Meter	JiGVHT-063	CZ		This cassette torque meter is used for checking and adjusting the torque of take-up for measuring tape back tension.												
2.	Torque Gauge	JiGTG0090	CM		These Jigs are used for checking and adjusting the torque of take-up and supply reel disks.												
		JiGTG1200	CN														
3.	Torque Gauge Head	JiGTH0006	AW														
4.	Torque Driver	JiGTD1200	CB		When fixing any part to the threaded hole using resin with screw, use the jig. (Specified torque 5 kg)												
5.	Master Plane Jig and Reel Disk Height Adjusting Jig	JiGRH0002	BR		These Jigs are used for checking and adjusting the reel disk height.												
		JiGMP0001	BY														
6.	Tension Gauge	JiGSG2000	BS		There are two gauges used for the tension measurements, 300 g and 2.0 kg.												
		JiGSG0300	BF														
7.	Pinch pressing force measuring jig	JiGADP003	BK		This Jig is used with the tension gauge. Rotary transformer clearance adjusting jig.												
8.	Alignment Tape	VROCPHV	CK		<p>This tape is especially used for electrical fine adjustment.</p> <table border="1"> <tr> <th>Video</th> <th>Audio</th> <th>HiFi Audio</th> <th>Track</th> </tr> <tr> <td>625 Monoscope</td> <td>6 kHz</td> <td>—</td> <td>35 µm</td> </tr> <tr> <td>625 Monoscope and Colour bar</td> <td>6 kHz and 1 kHz</td> <td>—</td> <td>49 µm</td> </tr> </table>	Video	Audio	HiFi Audio	Track	625 Monoscope	6 kHz	—	35 µm	625 Monoscope and Colour bar	6 kHz and 1 kHz	—	49 µm
Video	Audio	HiFi Audio	Track														
625 Monoscope	6 kHz	—	35 µm														
625 Monoscope and Colour bar	6 kHz and 1 kHz	—	49 µm														
9.	Guide roller height adjustment driver	JiGDRiVERH-4	AP		This screwdriver is used for adjusting the guide roller height.												
10.	X value adjustment gear driver	JiGDRiVER-6	BM		For X value adjustment												
11.	Tension Pole Adjustment Driver	JiGHMEC-M005	CK		This Jig is used for adjustment of tension pole.												

8-2. MAINTENANCE CHECK ITEMS AND EXECUTION TIME

Perform the maintenance with the regular intervals as follows so as to maintain the quality of machine.

Maintained Parts	500 hrs.	1000 hrs.	1500 hrs.	2000 hrs.	Possible symptom encountered	Remarks
Guide roller ass'y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lateral noises Head occasionally blocked	Abnormal rotation or significant vibration requires replacement.
Sup guide shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Clean tape contact part with the specified cleaning liquid.
Reverse guide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Slant pole on pole base	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Full erase head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Colour and beating	
A/C head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Small sound or sound distortion	
Upper and lower drum ass'y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Poor S/N ratio, no colour Poor flatness of the envelope with alignment tape	Clean tape contact area with the specified cleaning liquid.
Capstan D.D. motor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No tape running, uneven color	
Pinch roller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No tape running, tape slack	Clean rubber and rubber contact area with the specified cleaning liquid.
Reel belt		<input type="checkbox"/>		<input type="checkbox"/>	No tape running, tape slack, no fast forward/rewind motion	
Tension band ass'y				<input type="checkbox"/>	Screen swaying	
Loading motor				<input type="checkbox"/>	Cassette not loaded or unloaded	
Idler ass'y				<input type="checkbox"/>	No tape running, tape slack	
Limiter pulley		<input type="checkbox"/>		<input type="checkbox"/>		
Supply/take-up main brake levers				<input type="checkbox"/>	Tape slack	
AHC (Automatic head cleaner)		<input type="checkbox"/>		<input type="checkbox"/>		Replace the roller of the cleaner when it wears down. Just change the AHC roller assembly for new one.

NOTE ○ : Part replacement. □ : Cleaning △ : Apply grease

<Specified> Cleaning liquid Industrial ethyl alcohol

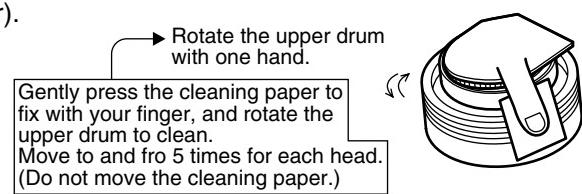
* This mechanism does not need electric adjustment with variable resistor. Check parts. If any deviation is found, clean or replace parts.

Video head cleaning procedure

1. Apply one drop of cleaning liquid to the cleaning paper with the baby oiler.
2. Gently press the cleaning paper against the video head to fix your finger, and move the upper drum so that each head is passed to and fro 5 times (do not move the cleaning paper).
3. Wipe with the dry cleaning paper.

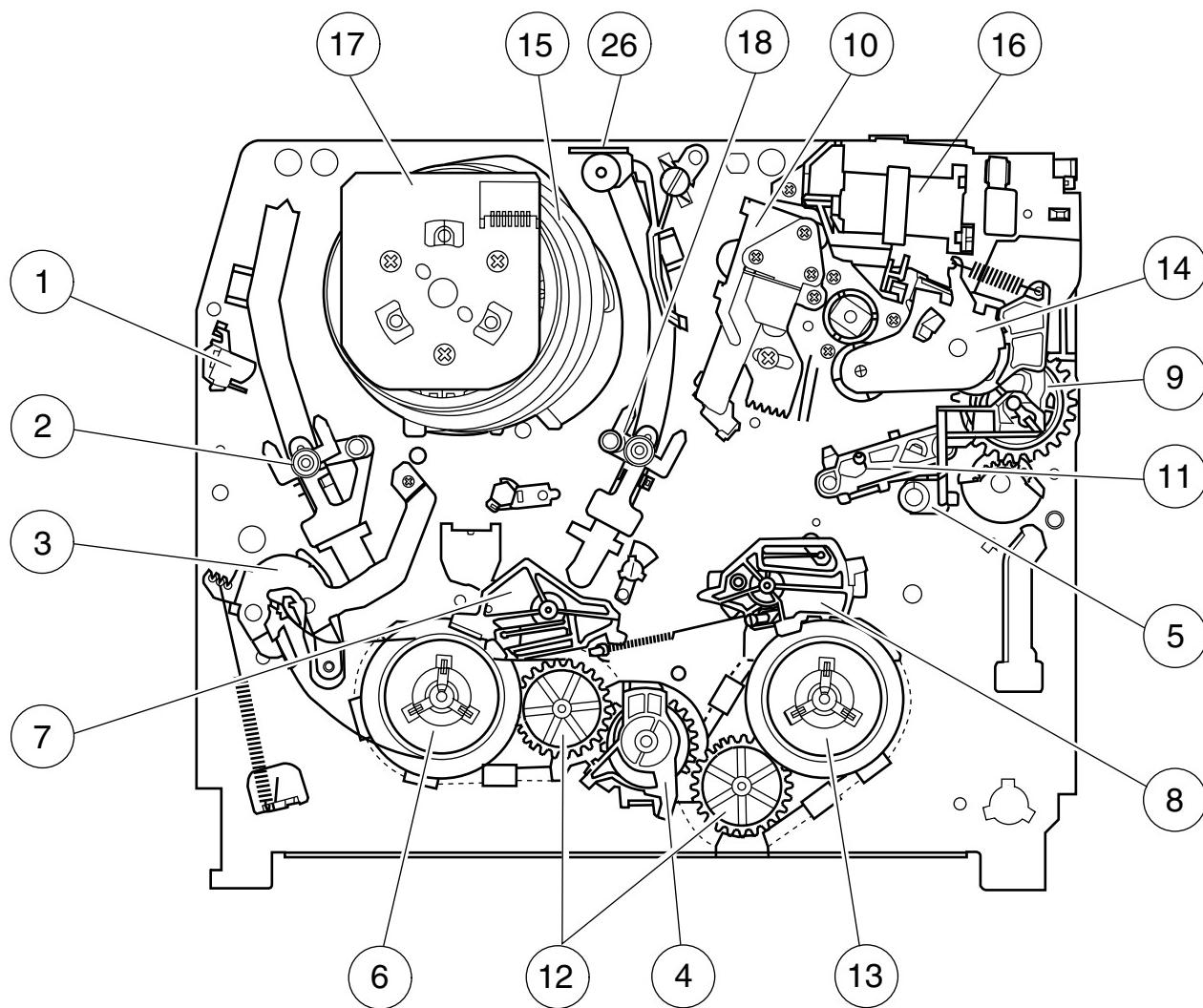
Notes :

- Use the commercially available ethanol of Class 1 as cleaning liquid.
- Since the video head may be damaged, do not move up and down the cleaning paper.
- Whenever the video head is cleaned, replace the cleaning paper.
- Do not apply this procedure for the parts other than the video head.



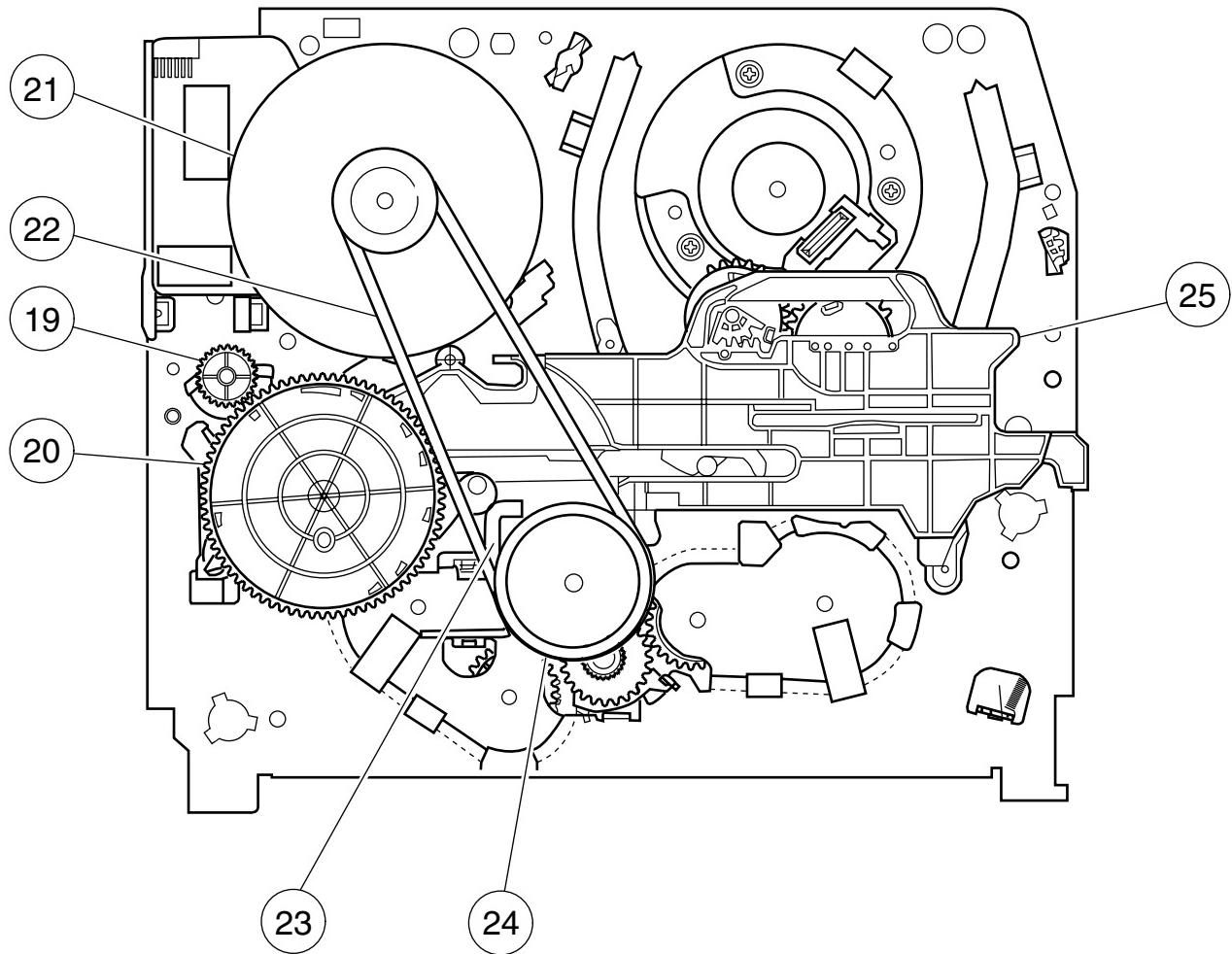
Parts Code	Description	Code
ZPAPRA56-001E	Cleaning Paper	AW
ZOILR-02-24TE	Babe Oiler (Spoon)	AH

8-3. FUNCTION OF MAJOR MECHANICAL PARTS (TOP VIEW)



No.	Function	No.	Function
1	Full erase head	11	Reverse guide lever ass'y
2	Supply pole base ass'y	12	Reel relay gear
3	Tension arm ass'y	13	Take-up reel disk
4	Idler wheel ass'y	14	Pinch roller lever ass'y
5	Open guide	15	Drum ass'y
6	Supply reel disk	16	Loading motor
7	Supply main brake	17	Drum motor
8	Take-up main brake ass'y	18	Take-up pole base ass'y
9	Pinch drive cam	26	Auto head cleaner Ass'y
10	A/C head ass'y		

FUNCTION OF MAJOR MECHANICAL PARTS (BOTTOM VIEW)



No.	Function	No.	Function
19	Syncro Gear	23	Clutch lever
20	Master cam	24	Limitter pulley ass'y
21	Capstan D.D. motor	25	Shifter
22	Reel belt		

8-4. DISASSEMBLY AND REASSEMBLY

8-4-1. DISASSEMBLING THE MECHANISM

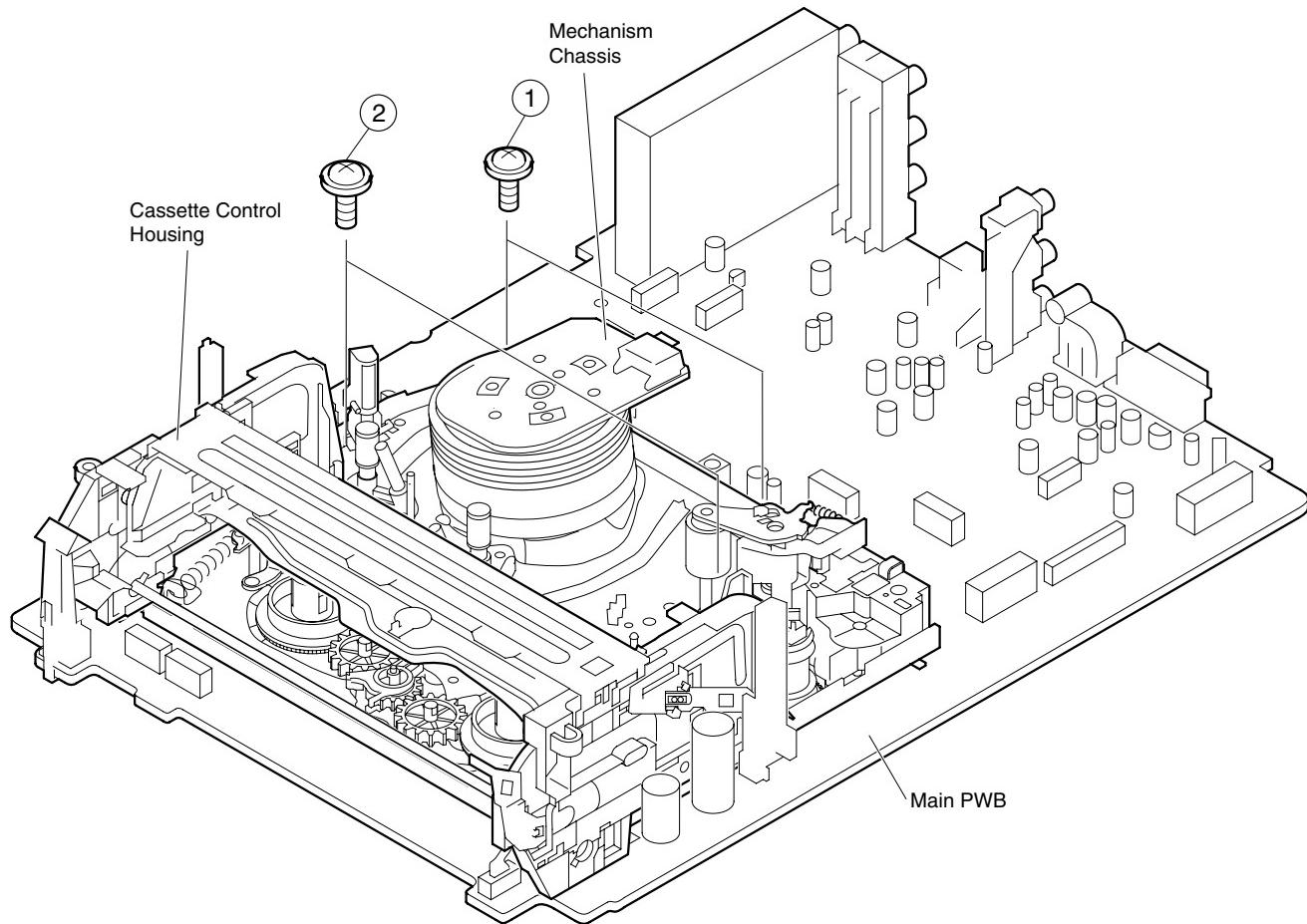
1. When removing the mechanism from the set.

Remove the two screws ① which connecting mechanism and main frame.

Take out vertically the mechanism with attention to its edges, so that it does not damage the adjacent parts.

2. Removing the mechanism and cassette housing.

Remove the two screws ② fixing the cassette housing to the mechanism, and remove the cassette housing.



8-4-2. CARES WHEN REASSEMBLING

INSTALLING THE CASSETTE HOUSING

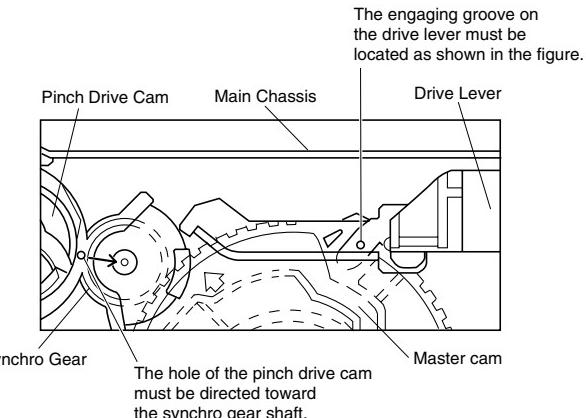
When the cassette housing is installed on the mechanism, the initial setting is essential condition.

There are two initial setting methods, namely electrical and mechanical.

1. Electrical initial setting

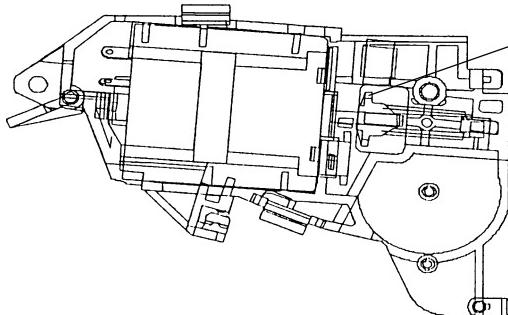
So as to perform initial setting of mechanism execute the Step 1 of Installation of cassette housing. After ascertaining the return to the initial setting position install the cassette housing. (Conditions: When mechanism and Main PWB have been installed)

STATE OF MECHANISM AT THE POSITION WHERE CASSETTE HOUSING WAS INSTALLED



2. Mechanical initial setting

- When performing the initial setting manually, press and turn the flange of the worm as shown in the figure below.
- When applying constant voltage to the loading motor
 - Unsolder at least one of the loading motor wires.
If voltage is applied with the wires connected, the IC of the capstan motor may be damaged.
 - The voltage applied to the motor must be maximum of 9V.
If the mechanism is activated by applying excessive voltage to the motor and is locked in the starting or end position, it may be damaged.



• After confirming that the mechanism is returned to the initial setting position, mount the cassette housing to the specified position. (This method is applied to the mechanism only.)

• After pushing the tip of the drive lever in the position shown in the figure, push the cassette housing backward to mount it to the specified position.

Rotate the flange of worm gear by using thin stick.
CW ---- Loading direction
CCW -- Ejection direction

Note

Be careful not to damage the gear of worm gear and worm wheel gear. It might cause a strange sound.

INSTALLING THE MECHANISM ON MAIN PWB

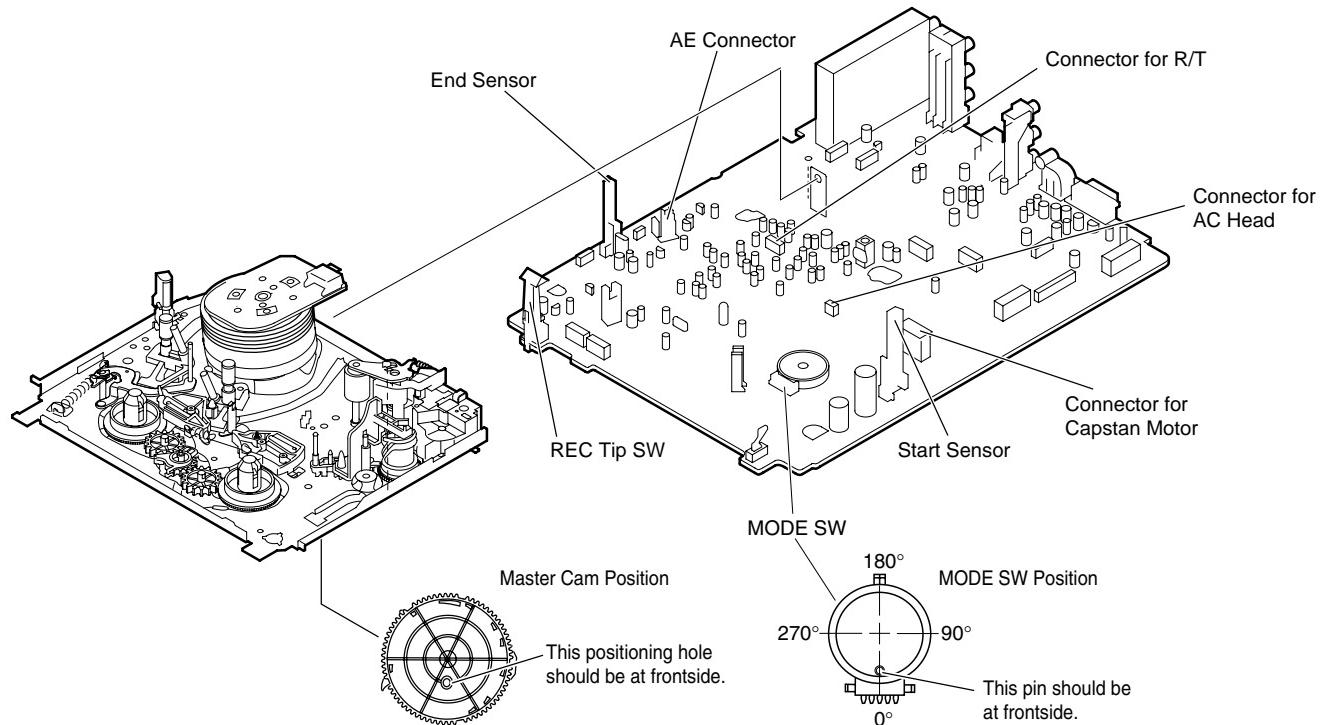
Lower the mechanism vertically with attention to its edges, and mount it without damaging the parts. Engage the pin of the mode SW and the long hole of the master cam.

* Please make sure to insert correctly.

If not, strange moving will occur and will cause mechanism damage.

PARTS WHICH NEED PARTICULAR CARE

When installing the mechanism chassis on the Main PWB unit, take care so as to prevent deformation due to contact of mechanism chassis with REC Tip SW.



8-5. REMOVING AND INSTALLING THE CASSETTE HOUSING

• Removal

1. In the cassette removing mode, remove the cassette.
2. Unplug the power cord.
3. Remove in the following numerical order.
 - a) Remove two screws ①.
 - b) Slightly lift the rear of the cassette housing and slide it toward you. Slide the drive lever by pushing it toward you, and disengage the tip of the drive lever from the hole of the chassis. Then, pull up the cassette control housing .

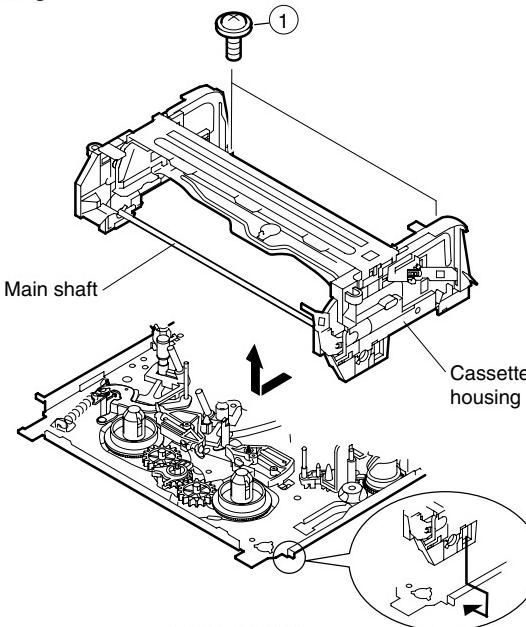


Figure 8-1.

• Reassembly

1. Before installing the cassette housing control, short-circuit between TP803 and TP802 on VCR Operation PWB, press the eject button. The master cam turns and stop in eject position. Fit the drive lever to master cam through main chassis, push down and slide the drive lever towards to master cam.

Push the cassette housing backward to mount it to the specified position.

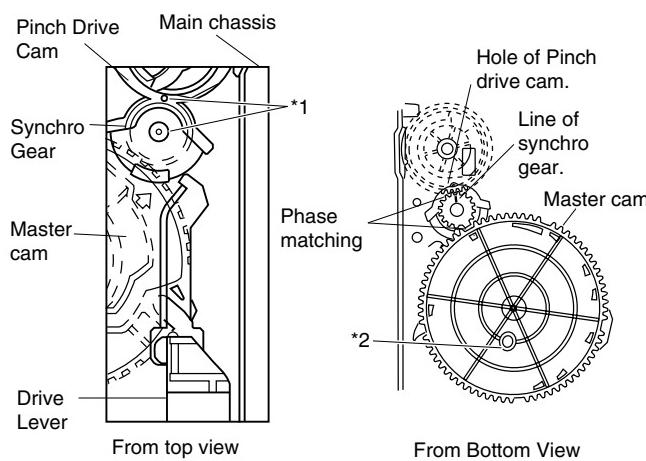


Figure 8-2.

*1: The hole of the pinch drive cam must be directed toward the synchro gear shaft.

*2: The long hole of the master cam must be located on the front side.

2. Install with the reverse order of removal. After installation is completed, disconnect and connect the AC plug.

Notes

1. In the case when you use the magnet screw driver, never approach the magnet driver to the A/C head, FE head, and drum.
2. When installing or removing, take care so that the cassette housing control and tool do not contact the guide pin or drum.
3. After installing the cassette housing control once perform cassette loading operation.

8-6. TO RUN A TAPE WITHOUT THE CASSETTE HOUSING CONTROL ASSEMBLY

1. Remove the full-surface panel.
2. Short-circuit between TP803 and TP802 on VCR Operation PWB.
3. Plug in the power cord.
4. Turn off the power switch.
5. Open the lid of a cassette tape by hand.
6. Hold the lid with two pieces of vinyl tape.
7. Set the cassette tape in the mechanism chassis.
8. Stabilize the cassette tape with a weight to prevent floating.
9. Turn on the power switch.
10. Perform running test.

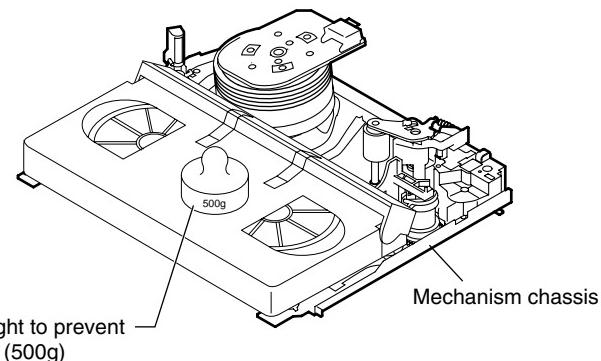


Figure 8-3.

Note:

The weight should not be more than 500g.

To take out the cassette tape.

1. Turn off the power switch.
2. Take out the cassette tape.

8-7. REEL DISK REPLACEMENT AND HEIGHT CHECK

• Removal

1. Remove the cassette control housing assembly.
2. Remove the Supply/Take-up main brake ass'y.
3. Lift the tension band on the reel disk side, remove tension band from the tension arm ass'y.
(Do not deform it excessively.)
4. Remove the reel disk.

Note:

Take care so that the tension band ass'y and main brake ass'y are not deformed.

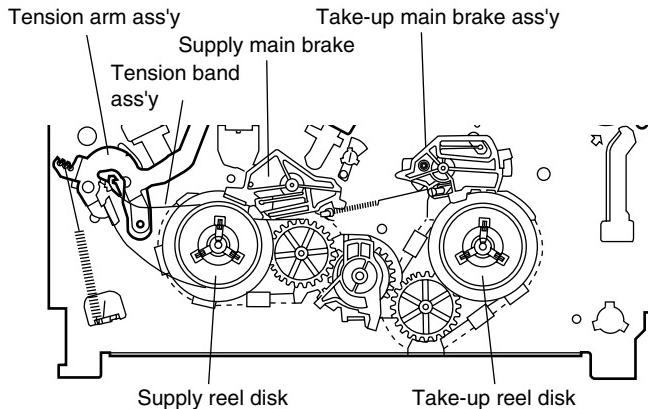


Figure 8-4.

• Reassembly (Supply reel disk)

1. Clean the reel disk shaft and apply grease (SC-141) to it.
2. Match the phases of reel disk and reel relay gear, and set the new reel disk.
3. After checking the reel disk height, wind the tension band ass'y around the reel disk.
4. Assemble the Supply main brake ass'y.

Notes:

1. When installing the reel disk, take due care so that the tension band ass'y is not deformed and grease does not adhere.
2. Do not damage the Supply main brake ass'y. Be careful so that grease does not adhere to the brake surface.

• Reassembly (Take-up reel disk)

1. Clean the reel disk shaft and apply grease (SC-141) to it.
2. Align the phase of the reel disk to that of the reel relay gear and to install a new take-up reel disk onto the shaft.
3. Check the reel disk height and reassemble the take-up main brake ass'y.

Notes:

1. Take care so that the Take-up main brake ass'y is not damaged. Take care so that grease does not adhere to the brake surface.
2. After reassembly, check the video search rewind back tension (see 8-12), and check the brake torque (see 8-16).

• Height checking and adjustment

1. Set the master plane with due care so that it does not contact the drum.
2. When putting the master plane, shift the reverse guide a little in the loading direction. Care must be taken since excessive shift results in damage.

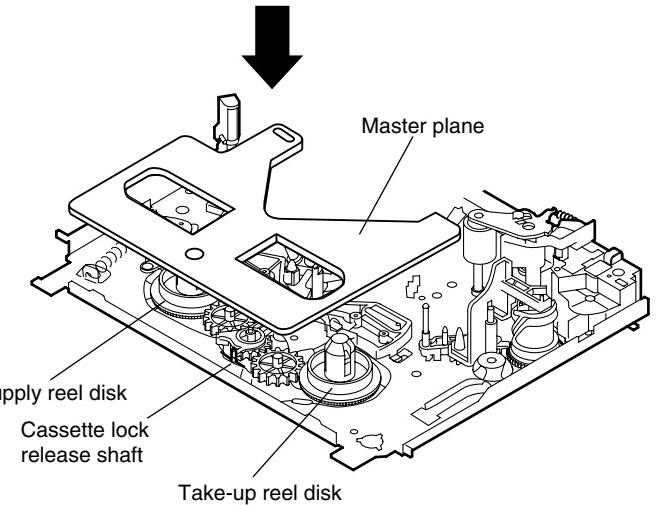


Figure 8-5.

Note:

1. Check that the reel disk is lower than part A but higher than part B. If the height is not correct, readjust the reel disk height by changing the poly-slider washer under the reel disk.
2. Whenever replacing the reel disk, perform the height checking and adjustment.

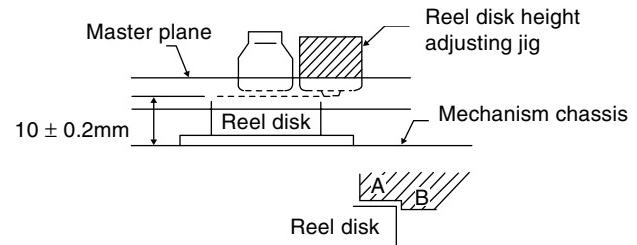


Figure 8-6.

8-8. CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN FAST FORWARD MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.

• Setting

1. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
2. Press the FF button.
3. To calculate the remaining capacity of the play back mode, slowly rotate the supply reel disk, and then shift it into the forward mode.

• Checking

1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CW direction.
2. Make sure that the indication of torque gauge is not less than 25mN·m (255gf·cm).

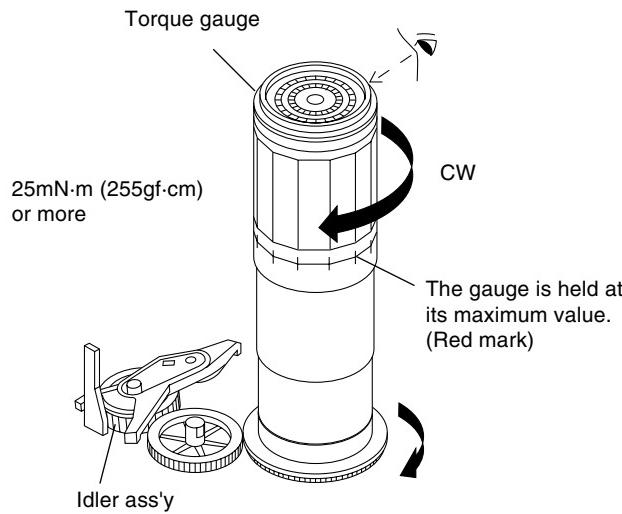


Figure 8-7.

• Adjustment

1. If the FF winding-up torque is less than the specified value, clean the capstan D.D. motor pulley, reel belt, and limiter pulley with cleaning liquid, and check again.
2. If the torque is less than the set value, replace the reel belt.

Notes:

1. Hold the torque gauge by hand so that it is not moved.
2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

8-9. CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.

• Setting

1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
2. Press the rewind button.
3. To calculate the remaining capacity, slowly rotate the take-up reel disk, and then shift it into the rewind mode.

• Checking

1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CCW direction.
2. Make sure that the indication of torque gauge is not less than 25mN·m (255gf·cm).

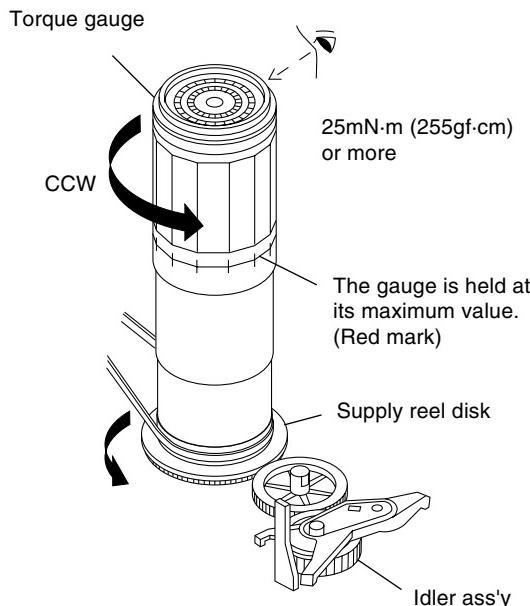


Figure 8-8

• Adjustment

1. If the rewind winding-up torque is less than the specified value, clean the capstan D.D. motor pulley, reel belt, and limiter pulley with cleaning liquid, rewind again, and check the winding-up torque.
2. If the winding-up torque is still out of range, replace the reel belt.

Notes:

1. Hold the torque gauge by hand so that it is not moved.
2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

8-10. CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN RECORD/PLAYBACK MODE

- Load the cassette torque meter into the unit.
- Press the picture record button, and set LP picture record mode.

Set value LP $6.9^{+2.0}_{-2.5}$ mN·m (70^{+20}_{-25} gf·cm)

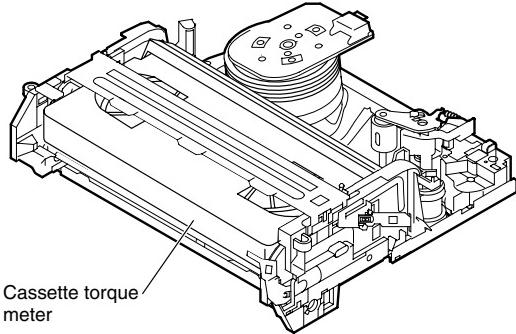


Figure 8-9.

• Checking

1. Make sure that value is within the setting $6.9^{+2.0}_{-2.5}$ mN·m (70^{+20}_{-25} gf·cm).
2. The winding-up torque fluctuates due to variation of rotation torque of limiter pulley ass'y. Read the center value of fluctuation as setting.
3. Set the LP record mode and make sure that the winding-up torque is within setting.

• Adjustment

If the playback winding-up torque is not within the setting, replace the limiter pulley assembly.

8-11. CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN VIDEO SEARCH REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.

• Setting

Press the playback button and rewind button to set the video search rewinding mode.

• Checking

Place the torque gauge on the supply reel disk, and turn it counterclockwise very slowly (one rotation every 1 to 2 seconds) and check that the torque is within the set value 14.1 ± 3.5 mN·m. (144 ± 35 gf·cm)

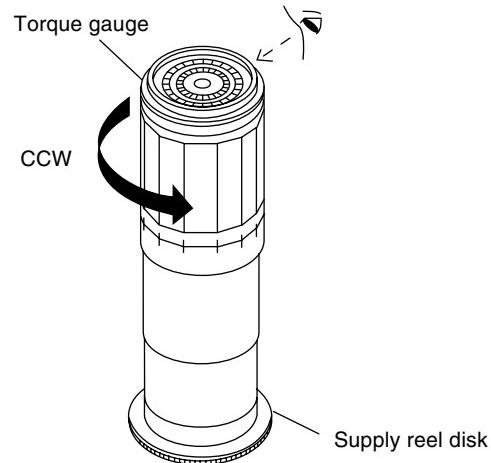


Figure 8-10.

Note:

Surely put the torque gauge on the reel disk to measure. If the torque gauge is raised, accurate measurement is impossible.

• Adjustment

If the rewinding playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

The winding-up torque fluctuates due to variation of rotation torque of supply reel disk. Read the center value of fluctuation as setting.

8-12. CHECKING THE VIDEO SEARCH REWIND BACK TENSION

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.
- **Checking**

 1. After pressing the play button, press the rewind button, and set the video search rewind mode.
 2. Place the torque gauge on the take-up reel disk, and turn it counterclockwise very slowly (one rotation every 2 to 3 seconds) and check that the torque is within the set value $3.7 \pm 1.5\text{mN}\cdot\text{m}$ ($38 \pm 15\text{gf}\cdot\text{cm}$).

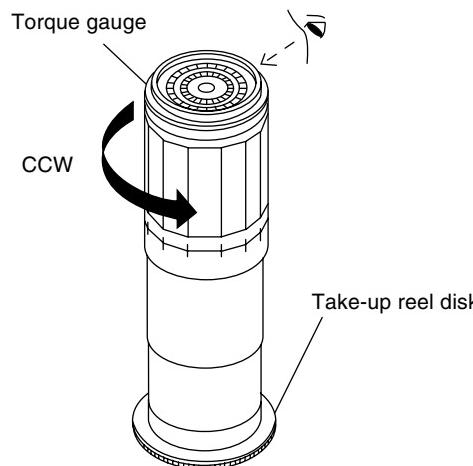


Figure 8-11.

Note:

Set the torque gauge securely on the take-up reel disk. If it is not secure, the measurement will be incorrect.

8-13. CHECKING THE PINCH ROLLER PRESSURE

- * Checking can be perform with or without cassette housing control.
 - Remove the cassette housing control assembly.
 - After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.
 - **Checking**
- Press the play button to set the playback mode.

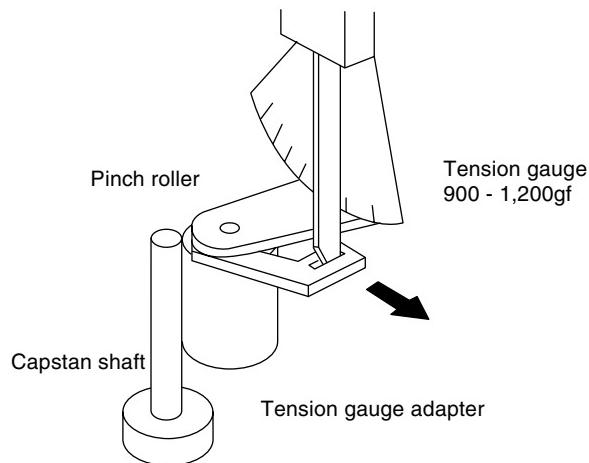


Figure 8-12.

1. Detach the pinch roller from the capstan shaft. Do not separate excessively. Or the pinch lever and pinch double action lever may disengage.
2. Engage the tension gauge adapter with the pinch roller shaft, and pull in the arrow direction.
3. Gradually return the pinch roller, and measure the pulling force when the pinch roller contacts the capstan shaft.
4. Make sure that the measured value is within setting change to $9.8 \pm 2\text{N}$ ($1.0 \pm 0.2\text{kgs}$).

8-14. CHECKING AND ADJUSTMENT OF TENSION POLE POSITION

• Setting (with cassette control housing)

1. Insert cassette tape (E-180)
2. Make the adjustment with the beginning of a E-180 tape.

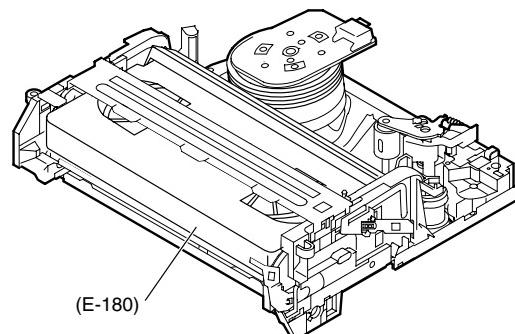
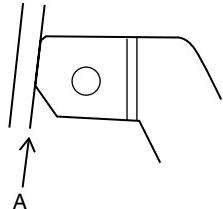


Figure 8-13.

- **Checking**

1. Set a cassette tape, push the REC button to place the unit in the SP record mode. Now check the tension pole position.
2. Visually check to see if the position of the tension pole is within the $0^{+0.5}_{-0.2}$ mm from the left end and the line of Standard-A of the right side of the tension pole.

$$\text{Standard-A} = 0^{+0.5}_{-0.2} \text{ mm } (+0.5 \text{ inside})$$



Make the adjustment with the beginning of a E-180 tape.

Figure 8-14.

At left side from the line of Standard-A.

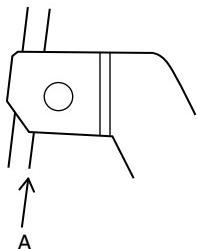


Figure 8-15.

Insert the tension pole adjustment driver to main chassis hole, and rotate clockwise.

At right side from the line of Standard-A.

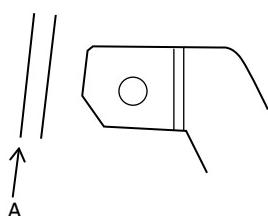


Figure 8-16.

Insert the tension pole adjustment driver to main chassis hole, and rotate counterclockwise.

Tension pole adjustment driver adjusting direction

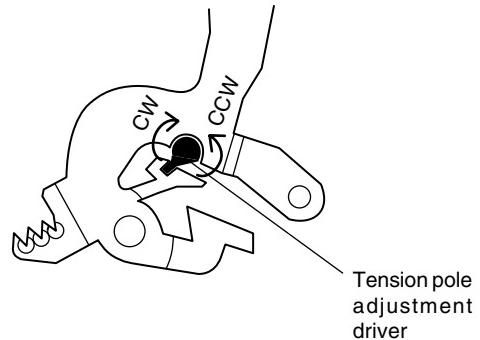


Figure 8-17.

8-15. CHECKING AND ADJUSTMENT OF RECORD/PLAYBACK BACK TENSION

- **Setting (with cassette control housing)**
1. Insert cassette torque meter.

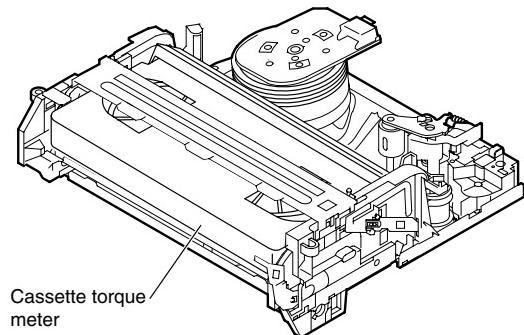


Figure 8-18.

- **Checking**

1. Push the REC button to place the unit in the record mode.
2. At this time ascertain that the back tension is within the setting $3.9 \sim 5.5 \text{mN}\cdot\text{m}$ ($40 \sim 56 \text{gf}\cdot\text{cm}$) by seeing the indication of torque cassette meter.

- **Adjustment**

1. If the indication of torque cassette meter is lower than the setting, shift the tension spring engagement to the part A.
2. If the indication of torque cassette meter is higher than the setting, shift the tension spring engagement to the part B.

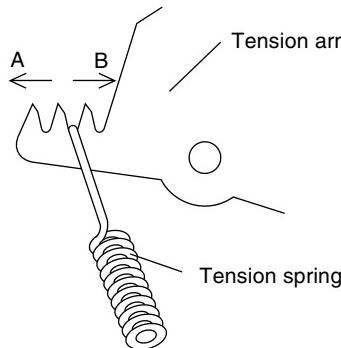
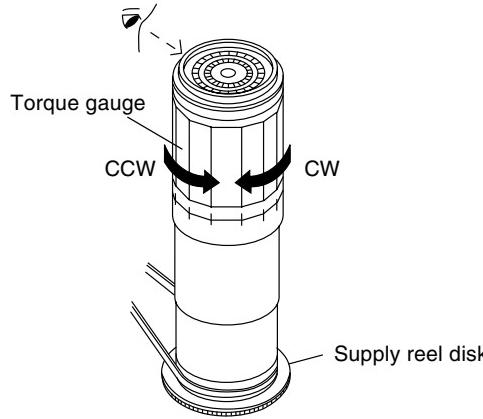


Figure 8-19.

8-16. CHECKING THE BRAKE TORQUE

- **Checking the brake torque at the supply side**



CCW:	$4.41 \pm^{+2.0}_{-1.5}$ mN·m (45 \pm^{+20}_{-15} gf·cm)
CW:	$4.12 \pm^{+1.5}_{-1.2}$ mN·m (42 \pm^{+15}_{-12} gf·cm)

Figure 8-20.

- **Remove the cassette housing control assembly.**
- **After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.**

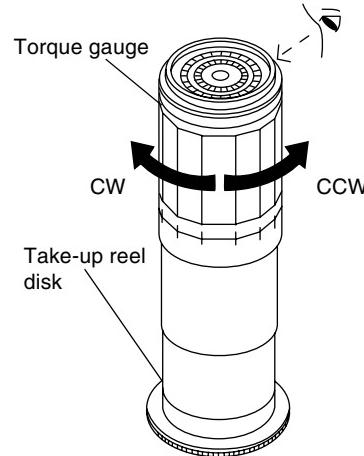
- **Setting**

1. Switch from the FF mode to the STOP mode.
2. Disconnect the power cord.
3. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
4. Please check Idler gear not contact with reel relay gear (SU side)

- **Checking**

Turn the torque gauge at a rate of about one turn/2 sec in the CW direction/CCW direction with respect to the supply reel disk so that the reel disk and torque gauge pointer rotate at equal speed, and make sure that the value is within the setting (CW direction: $4.12 \pm^{+1.5}_{-1.2}$ mN·m ($42 \pm^{+15}_{-12}$ gf·cm); CCW direction: $4.41 \pm^{+2.0}_{-1.5}$ mN·m ($45 \pm^{+20}_{-15}$ gf·cm)).

- **Checking the brake torque at the take-up side**



CCW:	$4.41 \pm^{+2.0}_{-1.5}$ mN·m (45 \pm^{+20}_{-15} gf·cm)
CW:	$4.12 \pm^{+1.5}_{-1.2}$ mN·m (42 \pm^{+15}_{-12} gf·cm)

Figure 8-21.

- **Remove the cassette housing control assembly.**
- **After short-circuiting between TP803 and TP802 provided at VCR Operation PWB, plug in the power cord.**

- **Setting**

1. Switch from the FF mode to the STOP mode.
2. Disconnect the power cord.
3. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
4. Please check Idler gear not contact with reel relay gear (TU side)

- **Checking**

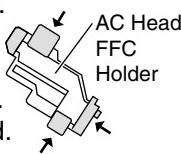
1. Turn the torque gauge at a rate of about one turn/2 sec in the CCW direction/CW direction so that the reel disk and torque gauge pointer rotates at equal speed and make sure that the value is within the setting (CCW direction: $4.41 \pm^{+2.0}_{-1.5}$ mN·m ($45 \pm^{+20}_{-15}$ gf·cm), CW direction: $4.12 \pm^{+1.5}_{-1.2}$ mN·m ($42 \pm^{+15}_{-12}$ gf·cm)).
2. Adjustment of the brake torque at the supply side and the take-up side
 - Unless the supply side brake torque or take-up side brake torque is within the setting, clean the felt surface of reel disk (supply, take-up) brake lever, check again the brake torque.
 - If value cannot be set within the setting yet, replace the main brake ass'y or main brake spring.

8-17. REPLACEMENT OF A/C HEAD

1. In eject position unplug the power cord.

• Removal

1. Take out FFC holder from main chassis.
(Push 3 hooking point and pull-up the holder).
2. Remove the screws ①②③, Tilt screw.
3. Unsolder the PWB fitted to the A/C head.



Notes:

1. When replacing, never touch the head. If you touched, clean with the cleaning liquid.
2. When removing the screw ③, take care so that the spring may out.

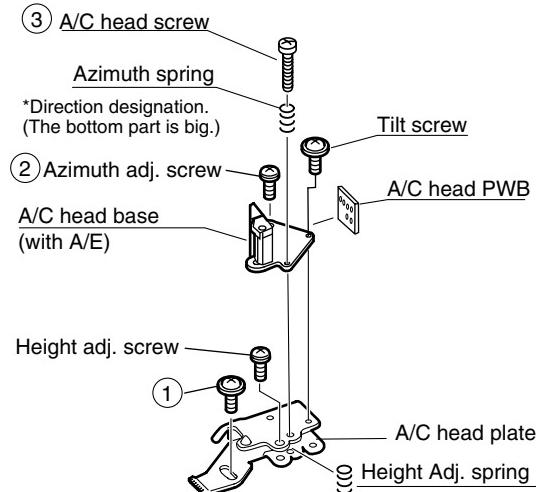


Figure 8-22.

• Replacement

1. Solder the removed PWB to the new head assembly.
2. Adjust the height from the A/C head plate (lower surface) to the A/C head base to 10.8mm with slide calipers. (3 places of azimuth screw section, tilt screw section and A/C head front section) (See the figure below.)

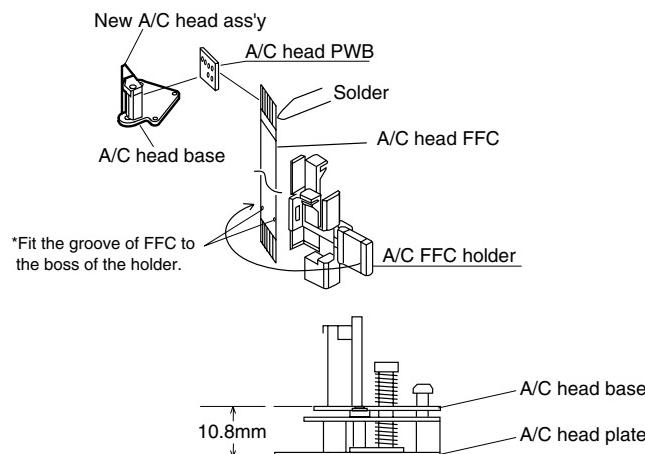


Figure 8-23.

3. Align the left end of gear of A/C head plate with the punched mark of chassis, tentatively tighten the screws ① so as to ensure smooth motion of A/C head plate. Tentative tightening torque must be $0.45 \pm 0.05\text{N}\cdot\text{m}$ ($4.5 \pm 0.5\text{kgf}\cdot\text{cm}$) and final tightening torque must be $0.6\text{N}\cdot\text{m}$ ($6\text{kgf}\cdot\text{cm}$).

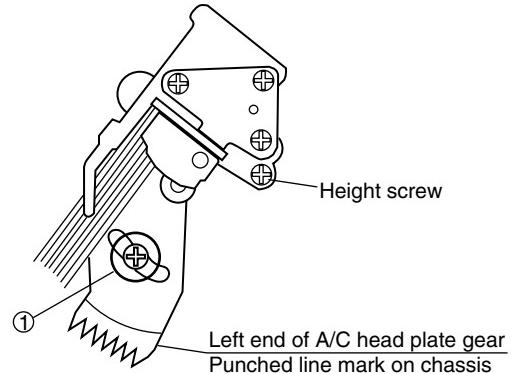


Figure 8-24.

Notes:

1. If the screw ① is tighten tentatively too loose, the azimuth and height of A/C head may change when they are finally tightened. Therefore care must be taken.
2. After completion of A/C head be sure to adjust tape running. (Execute the running adjustment by the method described in 8-19.)

8-18. A/C HEAD HEIGHT ROUGH ADJUSTMENT

- Setting

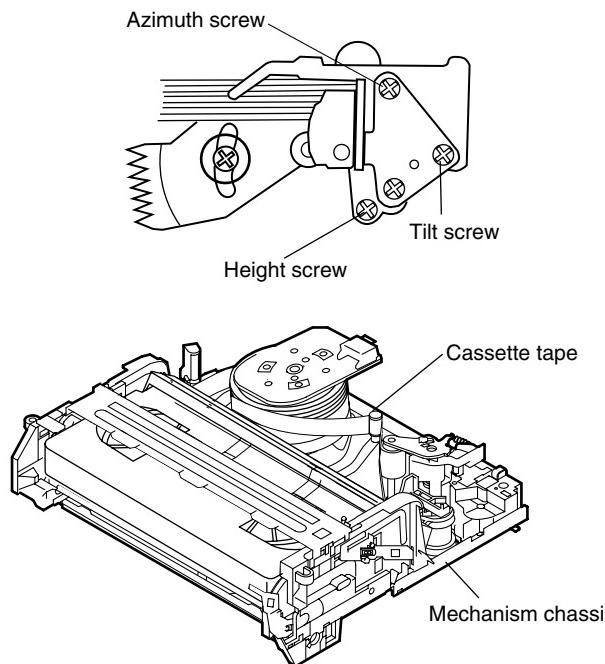


Figure 8-25.

1. Set the cassette tape in the unit.
2. Press the PLAY button to put the unit in the playback mode.
3. Roughly adjust the height of the A/C head by turning the height screw until the tape is in the position shown below.

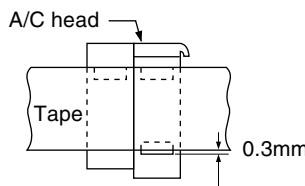


Figure 8-26.

- **Adjustment**

Adjust the height screw visually so that the control head is visible 0.3 mm below the bottom of the tape.

8-19. ADJUSTMENT OF TAPE DRIVE TRAIN

1. Tape run rough adjustment

- ① Check and adjust the position of the tension pole. (See 8-14.)
- ② Check and adjust the video search rewind back tension. (See 8-12.)
- ③ Connect the oscilloscope to the test point for ATR signal output (TP201). Set the synchronism of the oscilloscope to EXT. The PB CHROMA ATR signal is to be triggered by the head switching pulse (TP202).
- ④ Set the alignment tape (VROCPSP) to play.

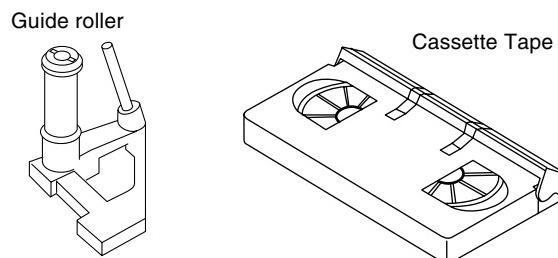


Figure 8-27.

- ⑤ Press the tracking button (+), (-) and change the ATR signal waveform from max to min and from min to max. At this time make sure that the ATR signal waveform changes nearly parallel.
- ⑥ Unless the ATR signal waveform changes nearly parallel, adjust the height of supply side and take-up side guide roller so that the envelope waveform changes nearly parallel. (For ATR signal adjustment procedure refer to **Figure 8-31**.)
- ⑦ Turn the tilt screw to remove the tape crease at the fixing guide flange.
Playback the tape and check for tape crease at the fixing guide flange.
 - (1) If there is no tape crease
Turn the tilt screw clockwise so that tape crease appears once at the flange, and then return the tilt screw so that the crease disappears.
 - (2) If there is tape crease
Turn counterclockwise the tilt screw so that the tape crease disappears.
(Reference) If the tilt screw is turned clockwise crease appears at the lower flange.

Notes:

1. Previously set the tracking control in the center position, and adjust the ATR signal waveform to maximum with X value adjustment nut. Thereby the tape run rough adjustment is facilitated.
2. Especially the outlet side ATR signal waveform must have higher flatness.



Figure 8-28.

2. Adjustment of A/C head height and azimuth

- ① Perform the initial setting of A/C head position by the method stated in "8-17 Replacement 3".
- ② Connect the oscilloscope to the audio output terminal.
- ③ Using the alignment tape in which 1 kHz linear audio signal has been recorded, adjust the height screw so as to get max audio output.
- ④ Using the alignment tape in which 7 kHz linear audio signal has been recorded, adjust the azimuth screw so as to get max audio output.
- ⑤ The adjustment of ③ and ④ twice or three times repeat, and finally adjust ④.

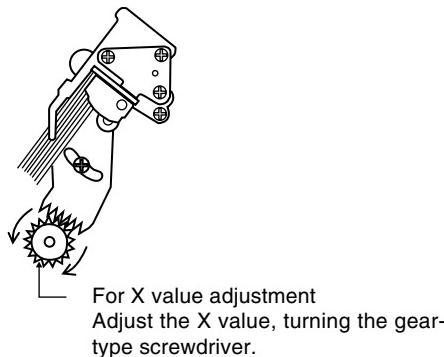


Figure 8-29.

3. Tape run adjustment

- ① Connect the oscilloscope to PB CHROMA ATR signal output test point, set oscilloscope sync to EXT, trigger-input the PB CHROMA signal (head switching pulse).

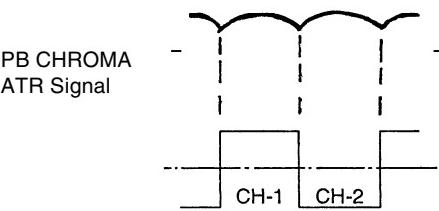
② Rough adjustment of X value

Tentatively fix A/C head arm screws ① by the method described in "8-17 Replacement 3".

Playback the alignment tape (VROCPGV) and shortcircuit between TP803 and TP802 on VCR Operation PWB. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

Move the A/C head with the X value adjustment gear driver (JiGDRIVER-6) by the method shown in Figure 8-34, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: When the A/C head is adjusted, adjust so that the maximum ATR signal waveform is obtained nearest the position of initial setting made in 8-17.)

- ③ Next, press the tracking button (+), (-) and change the ATR signal waveform from max to min and from min to max. At this time adjust the height of supply and take-up side guide roller with the adjustment driver (JiGDRIVER-4) so that the ATR signal waveform changes nearly parallel.
- ④ If the tape is lifted or sunk from the helical lead surface, the PB CHROMA ATR signal waveform appears as shown in Figure 8-31.
- ⑤ Press the tracking button (+), (-) and make sure that the ATR signal waveform changes nearly parallel.
- ⑥ Finally, check tape crease near the reverse guide. If tape crease is found, adjust tilt screw 45° counter clockwise. Small tape crease will appear at retain guide after this adjustment finished.



Head switching pulse

Figure 8-30.

	When the tape is above the helical lead.		When the tape is below the helical lead.	
	Supply side	Take-up side	Supply side	Take-up side
Adjustment	Supply side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Take-up side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Supply side guide roller rotated in counterclockwise direction (raises guide roller) to make the tape float above the helical lead. The supply side guide roller is then rotated in the clockwise direction to flatten the ATR signal.	Take-up side guide roller rotated in counterclockwise direction (raises guide roller) to make the tape float above the helical lead. The take-up side guide roller is then rotated in the clockwise direction to flatten the ATR signal.

Figure 8-31.

4. A/C head X value adjustment

- ① Fix A/C head arm screws ① and ② tentatively by the method described in "8-17 Replacement 3".
- ② Playback the alignment tape (VROCPGV), and shortcircuit between TP803 and TP802 on VCR Operatin PWB. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.
- ③ Move the A/C head with the X value adjustment gear driver by the method shown in **Figure 8-34**, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: At this time adjust so as to get the maximum ATR signal waveform nearest the A/C head position which has been set in case of X value rough adjustment as stated in **8-19, 3-②**.)
- ④ Adjust the playback switching point (Refer to the electric adjustment method.)
- ⑤ Playback the self-picture-recorded tape, and check the flatness of ATR signal waveform and sound.

Notes:

When the A/C head X value adjustment is performed, be sure to perform at first X value rough adjustment (refer to **8-19, 3-②**).

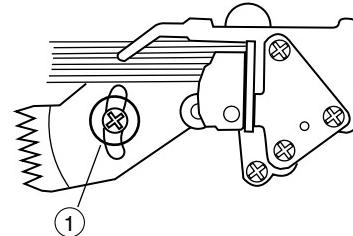


Figure 8-32.

8-20. REPLACEMENT OF THE CAPSTAN D.D. (DIRECT DRIVE) MOTOR

- Remove the mechanism from the set.

- **Removal (Follow the order of indicated numbers.)**

1. Unsolder loading motor wire and drum FFC to remove them from Capstan D.D. motor control PWB.
2. Remove the reel belt ①.
3. Remove the three screws ②.

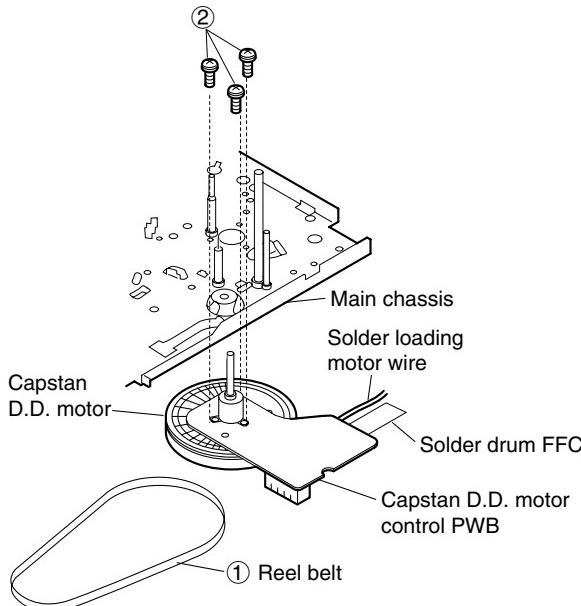


Figure 8-33.

- **Reassembly**

1. Taking care so that the capstan shaft does not contact the mechanism chassis, set its position on the mechanism chassis, and then install with the three screws ②.
2. Install the reel belt ①.
3. Solder loading motor wire and drum FFC to the capstan D.D. motor control PWB.

Notes:

1. After installing the capstan D.D. motor, be sure to rotate the capstan D.D. motor and check the movement.
2. Load a tape, and check for wrinkles on the tape near the reverse guide in the playback mode. Make adjustments according to "2. Adjustment of A/C head height and azimuth" in "8-19. ADJUSTMENT OF TAPE DRIVE TRAIN". If wrinkles are found, make adjustments according to "3. Tape run adjustment" in the same section.
3. When soldering the FFC and the loading motor wires, do not scatter solder over the magnet of the capstan rotor.

8-21. REPLACEMENT OF DRUM D.D. MOTOR

1. Set the ejection mode.
2. Withdraw the main power plug from the socket.

- **Removal (Perform in numerical order.)**

1. Disconnect the FFC cable ①.
2. Unscrew the D.D. stator assembly fixing screws ②.
3. Take out the D.D. stator assembly ③.
4. Unscrew the D.D. rotor assembly fixing screws ④.
5. Take out the D.D. rotor assembly ⑤.

Notes:

1. In removing the D.D. stator assembly, part of the drum earth spring pops out of the pre-load collar. Be careful not to lose it.
2. Install, so that the D.D. rotor ass'y and upper drum ass'y mounting direction check holes align. (Align the upper drum dent with the rotor hole.)
3. Be careful not to damage the upper drum or the video head.
4. Protect the hole elements from shock due to contact with D.D. stator or D.D. rotor ass'y.
5. After installation adjust the playback switching point for adjustment of servo circuit.

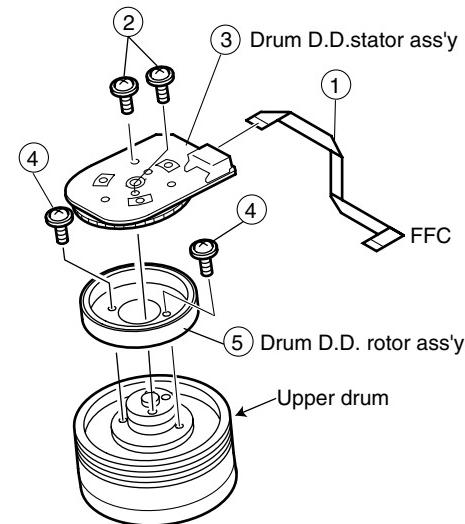


Figure 8-34.

8-22. REPLACING THE UPPER AND LOWER DRUM ASSEMBLY

- Replacement (Perform in the numerical order)

- ① Remove the motor as stated in 8-21 Replacement of Drum D.D. motor.
- ② Remove the drum earth brush ass'y ②.
- ③ Remove the upper and lower drum assembly from main chassis ①.
- ④ Remove the drum FFC holder ③.

[Cares when replacing the drum]

1. Be careful so that the drum earth brush is not lost.
2. Do not touch directly the drum surface.
3. Fit gently the screwdriver to the screws.
4. Since the drum assembly is an extremely precise assembly, it must be handled with utmost care.
5. Make sure that the drum surface is free from dust, dirt and foreign substances.
6. After replacing the drum be sure to perform the tape running adjustment.
After that, perform also the electrical adjustment.
- Playback switching point adjustment
- X-position adjustment and check
- Standard and x-3 slow tracking adjustment
7. After replacing the drum clean the drum.

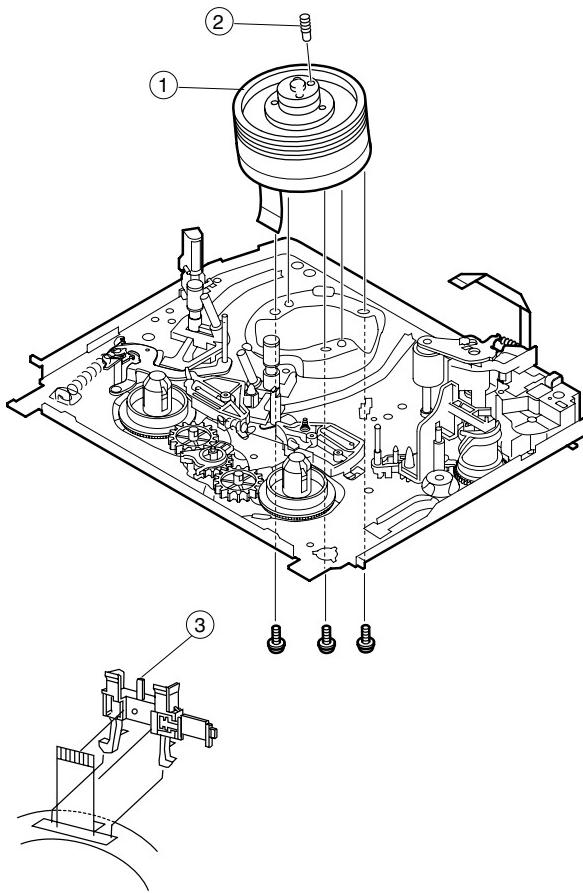


Figure 8-35.

8-23. ASSEMBLING OF PHASE MATCHING MECHANISM COMPONENTS

- Assemble the phase matching mechanism components in the following order.

1. Assemble the reverse guide lever and pinch drive cam.
2. Mounting the sifter (on the back of the mechanism chassis).
3. Mounting the master cam (on the back of the mechanism chassis).
4. Assemble synchro gear (on the back of the mechanism chassis).
5. Assemble the loading motor parts.

- Pinch drive cam and REVERSE GUIDE LEVER assembling method.

(Assemble the following parts in numerical order.)

- (1)Pinch drive cam ①
- (2)Reverse guide spring ②
- (3)Reverse guide lever ass'y ③
- (4)Open guide ④

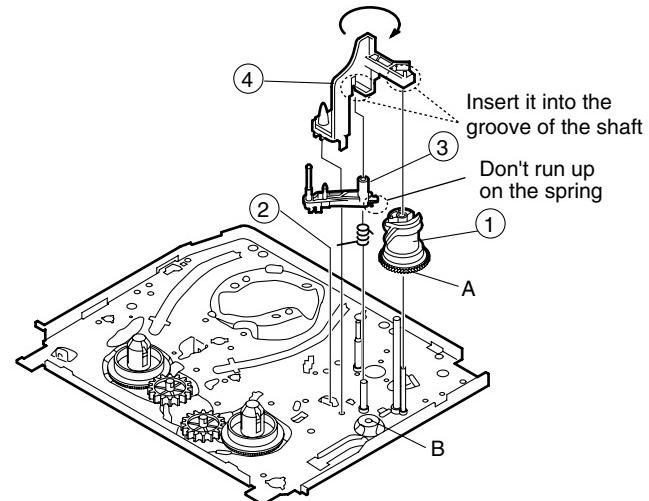
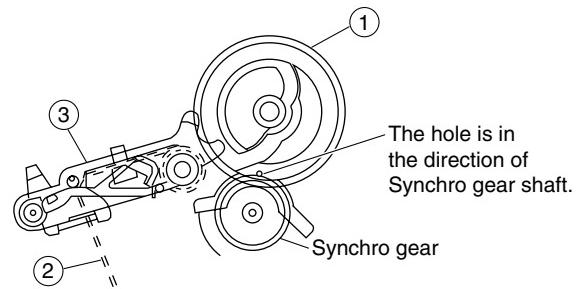
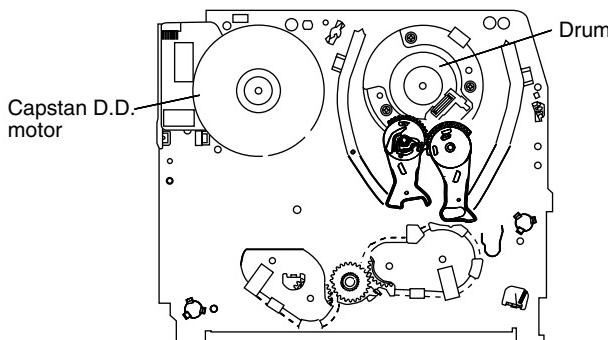


Figure 8-36.



From Top View

8-24. INSTALLING THE SIFTER



(Bottom side of mechanism chassis)

Figure 8-37.

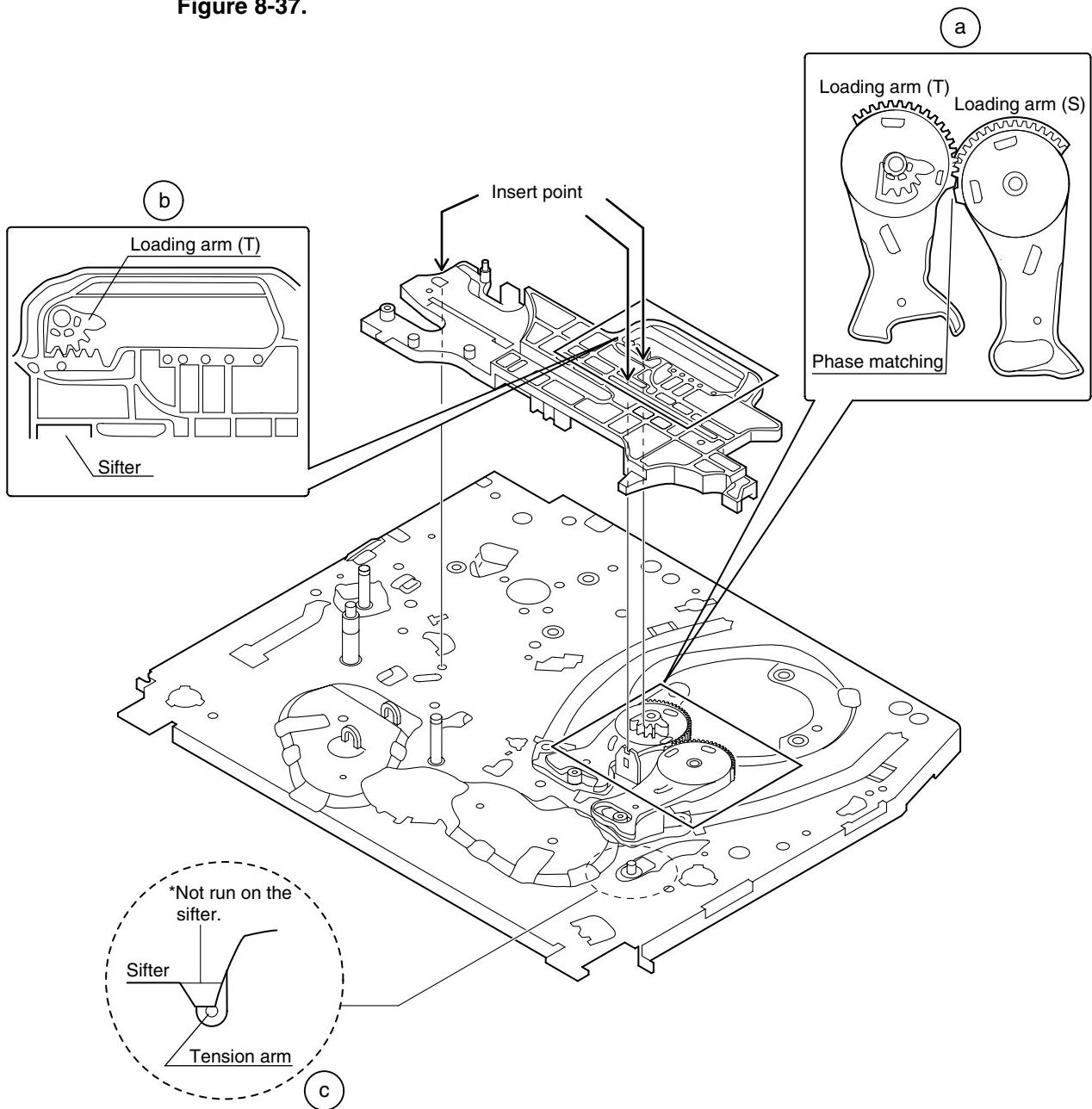


Figure 8-38.

* Remove the SUP/TU main brake before installation.

1. Make sure that the loading arm T and S are at the Phase-Matching point as shown below ①.
2. Fix the sifter position setting part to the roading arm T position setting part as shown in figure ②.
3. Make sure tension arm not run on the sifter as shown in figure ③.

8-25. INSTALLING THE MASTER CAM (AT REAR SIDE OF MECHANISM CHASSIS)

1. Before installing the master cam, make sure that the sifter is at initial position. (Right side from bottom view)
2. Place the master cam by pushing in so that the long hole of the master cam comes to the front side as shown below.
3. Fix the E-ring.
4. Adjust the master cam and pinch drive cam, fix the synchro gear in correct position.

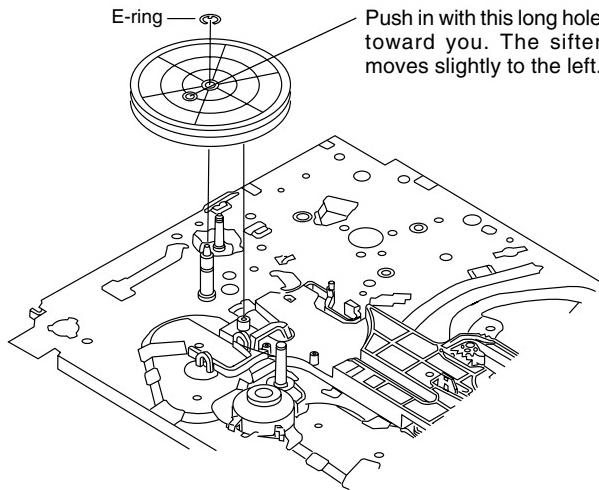


Figure 8-39-1.

Note:

See the figure below for the phase matching between the master cam synchro gear and pinch drive cam.

- Phase alignment of the master cam and the synchro gear;
Align the wide tooth space and the composite tooth.
- Phase alignment of the synchro gear and the pinch drive cam;
Adjust the teeth so as to orient the rib of the synchro gear and the hole of the pinch drive cam.

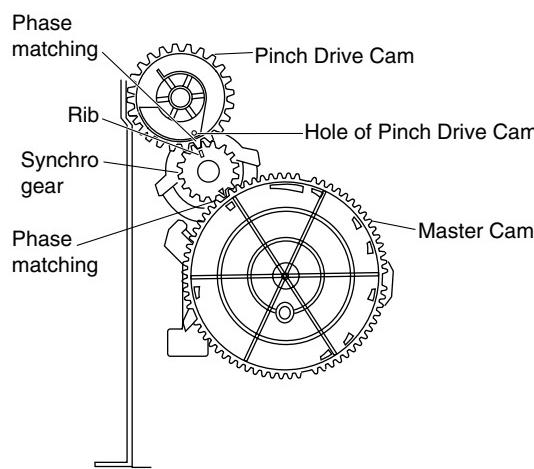


Figure 8-39-2.

8-26. REPLACEMENT OF LOADING MOTOR

- Removal

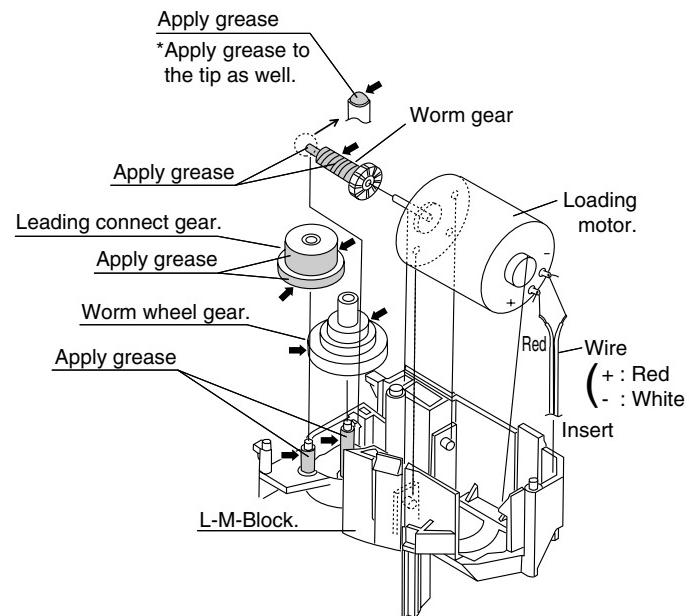
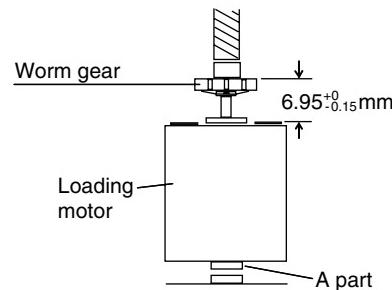


Figure 8-40.

- Replacement

Remove the loading motor, and install the replacement loading motor as shown below.



To press the motor in, first receive it by portion A.

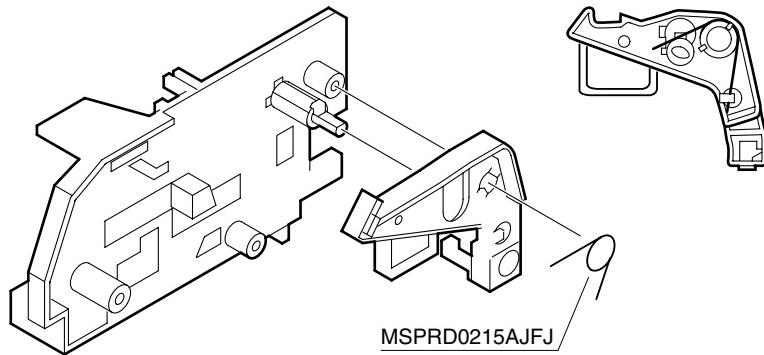
Figure 8-41.

The loading motor pressing-in must be less than 196N (20 kgf).

Adjust the distance between motor and pulley to 6.95^{+0.15} mm.

8-27. ASSEMBLY OF CASSETTE HOUSING

1. Proof lever, Proof lever spring and Holder R



*Proof lever spring fixing direction designated.

Figure 8-42.

2. Open lever, Sensor Plate and Drive Lever to Frame R

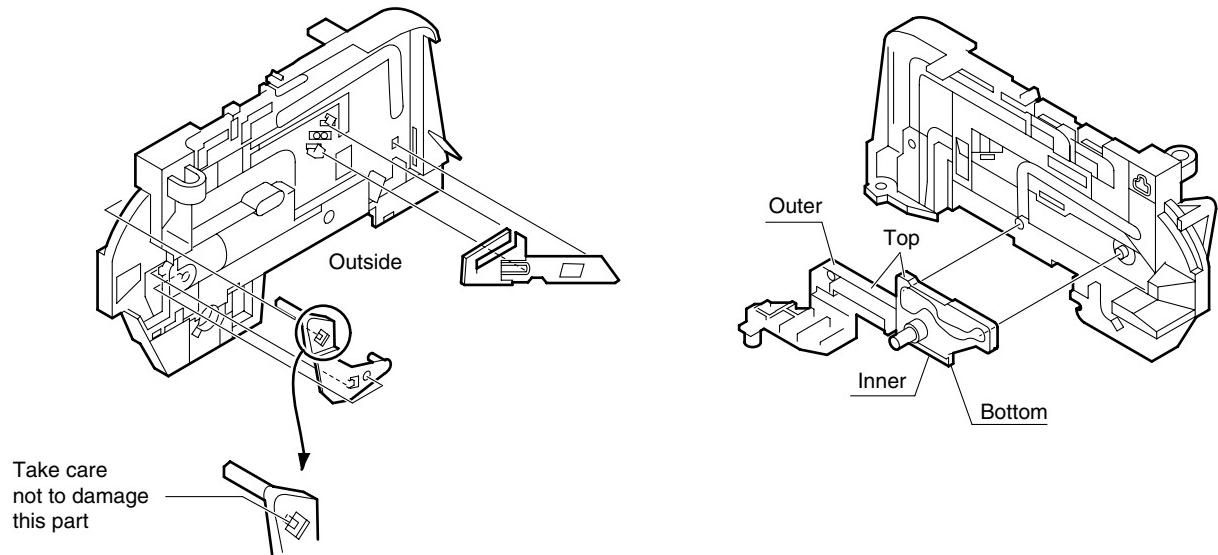


Figure 8-43.

3. Spring to Drive Arm R

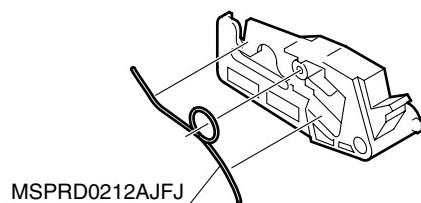


Figure 8-44.

4. Frame R, Frame L, Drive Arm R, Drive Arm L, Upper Plate.

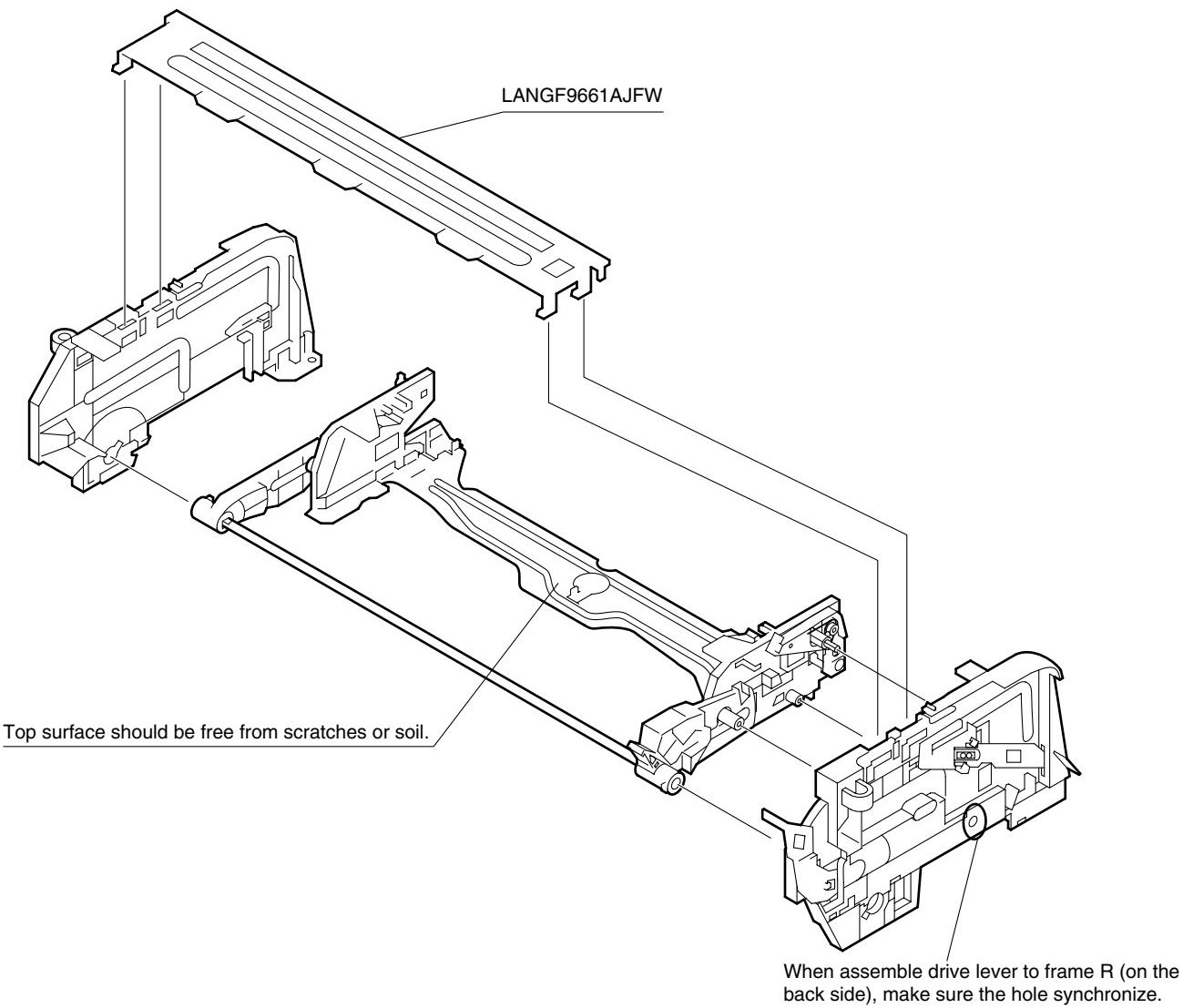
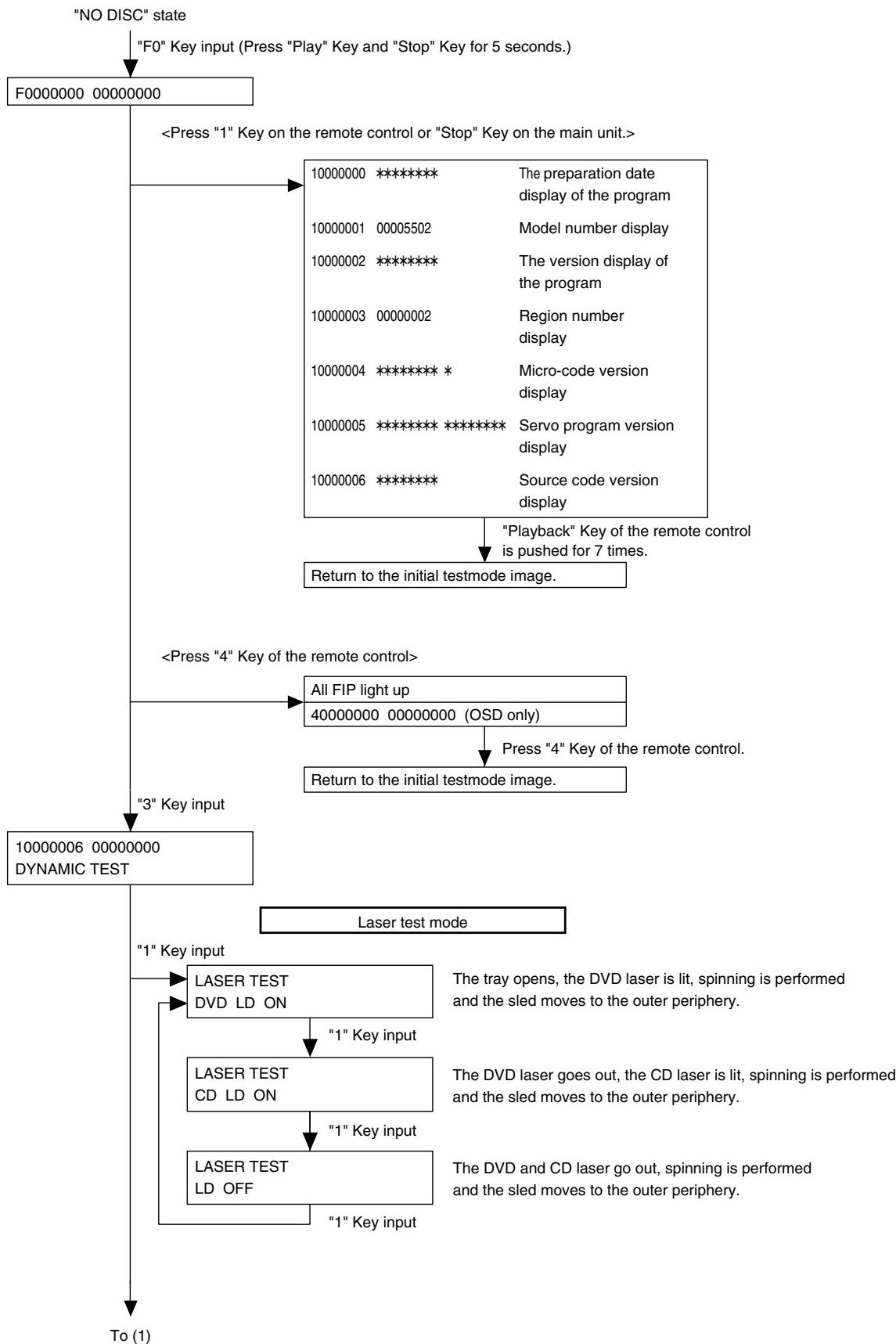
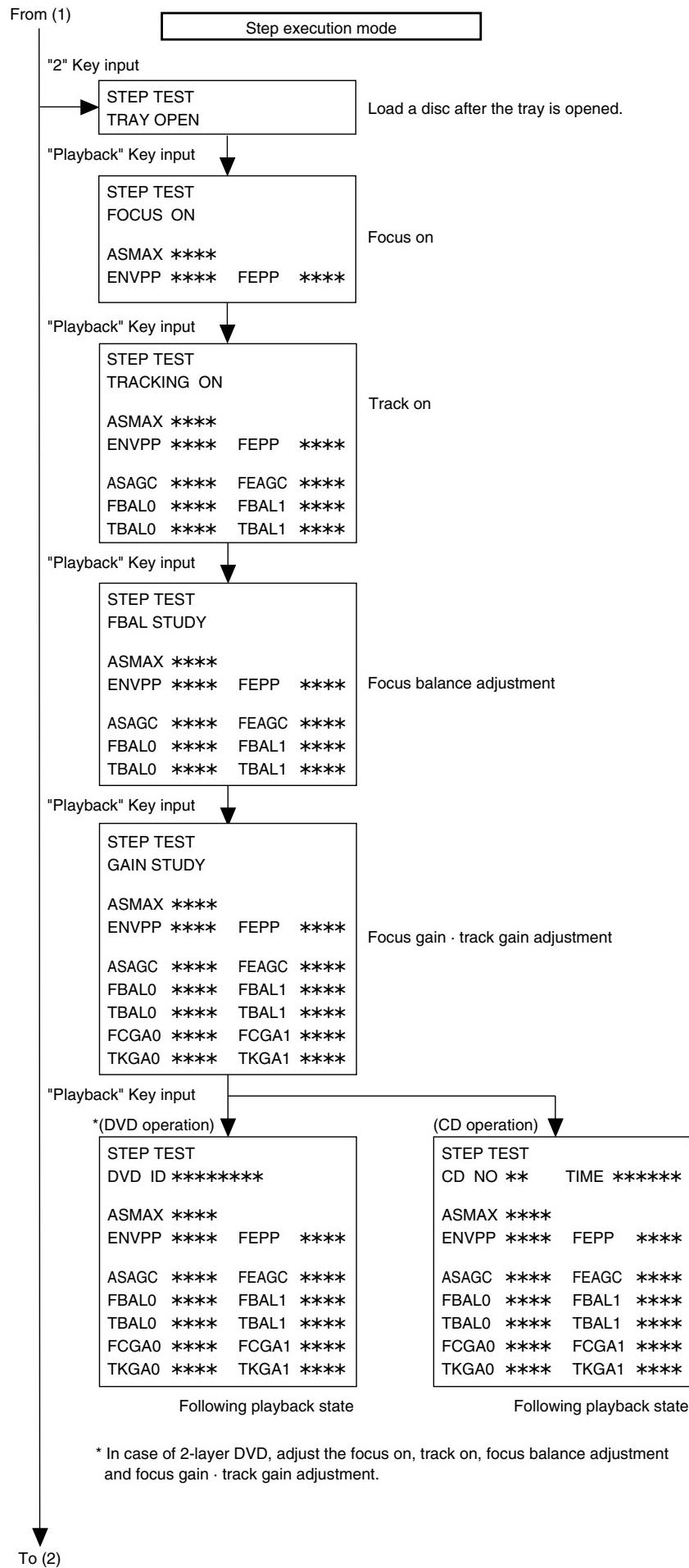
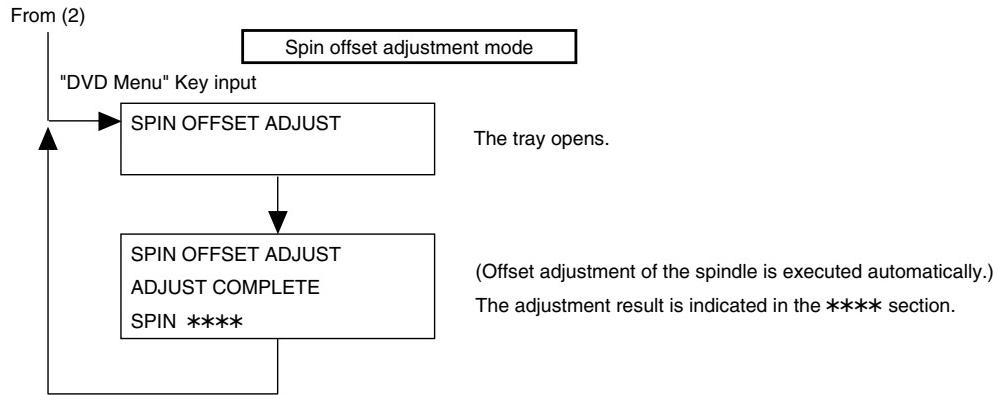


Figure 8-45.

9. TEST MODE







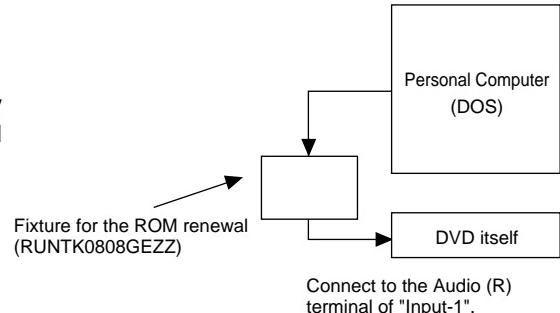
[ROM RENEWAL MODE]

1. A DVD itself and a personal computer are articulated as the right figure.
Software for the renewal is started more.
2. A power source is put with pushing DVD's own "Playback" Key and "Halt" Key at the same time. (It keeps pushing it for 3 seconds.)

R : OK	It is displayed.
--------	------------------
3. When "Y" is inputted in accordance with the personal computer display and date transfer indication is shown and renewal process is started normally when "Enter" Key is pushed.

W : STR	It is displayed.
---------	------------------
4. When renewal is completed normally, it becomes POWER ON.

DVD	It is displayed.
-----	------------------



PART CODE	Price Code
RUNTK0808GEZZ	CD

REPLACEMENT OF IC710 (E²PROM)

<<Servicing precautions>>

When the IC710 (E²PROM) has replaced, make the following reprogramming.

Depending on models, the IC710 (E²PROM) has been factory adjusted for its memory function.

It's therefore necessary to reprogram the memory function for the model in question.

Note that the servo circuit requires readjustments for the slow and still modes.

1. Memory function reprogramming.

a. Check the power off. (Power is standby mode.)

b. Make for moment short-circuit test point (TP801 and TP803), located at the VCR Operation PWB.

Be sure that all the VCR displays light up into the TEST mode.

c. Using the CHANNEL (+) and (-) buttons, select the right function numbers from JP0 to JP39, which appear in the VCR LCD display, referring to the E²PROM map.

Press the DISPLAY button to pickup the fuctions (ON) and the CLEAR button to discard the functions (OFF).

DISPLAY and CLEAR buttons are located on the remote control unit.

* When the DISPLAY button has been pressed (ON), the memory function number starts flashing.

* When the CLEAR button has been pressed (OFF), the memory function number lights up.

d. Example: "ON" and "OFF" are taken as "1" and "0" respectively.

The numbers JP0 to JP39 are divided into four groups and each group's setting is displayed in hexadecimal notation.

JP0	JP1	JP2	JP3	JP4	JP5	JP6	JP7	JP8	JP9	JP10	JP11	JP12	JP13	JP14	JP15	JP16	JP17	JP18	JP19	JP20	JP21	JP22	JP23	JP24	JP25	JP26	JP27
0	0	1	0	0	1	0	0	1	1	0	1	1	1	0	1	1	1	0	0	1	1	1	1	0	1	0	
		↓		↓				↓			↓			↓		↓		↓		↓							
		4			2			B			B			7			E									5	
JP28	JP29	JP30	JP31	JP32	JP33	JP34	JP35	JP36	JP37	JP38	JP39																
0	1	0	0	0	1	0	0	1	1	0	0																
		↓		↓				↓																			
		2			2						3																

Also recording level preset number selected from the ten keys on the remote control unit which appear in the VCR LCD display, referring to the E²PROM map.

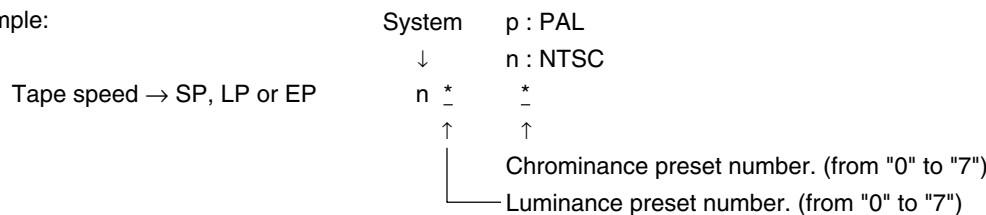
Out lights	SP p * *	LP p * *	SP n * *	EP n * *
Blank	Selection from the ten keys. (from "0" to "7")	Selection from the ten keys. (from "0" to "7")	Selection from the ten keys. (from "0" to "7")	Selection from the ten keys. (from "0" to "7")

2. Memory recording preset level reprogramming.

a. Similarly to the above step 1-a and 1-d the same operate.

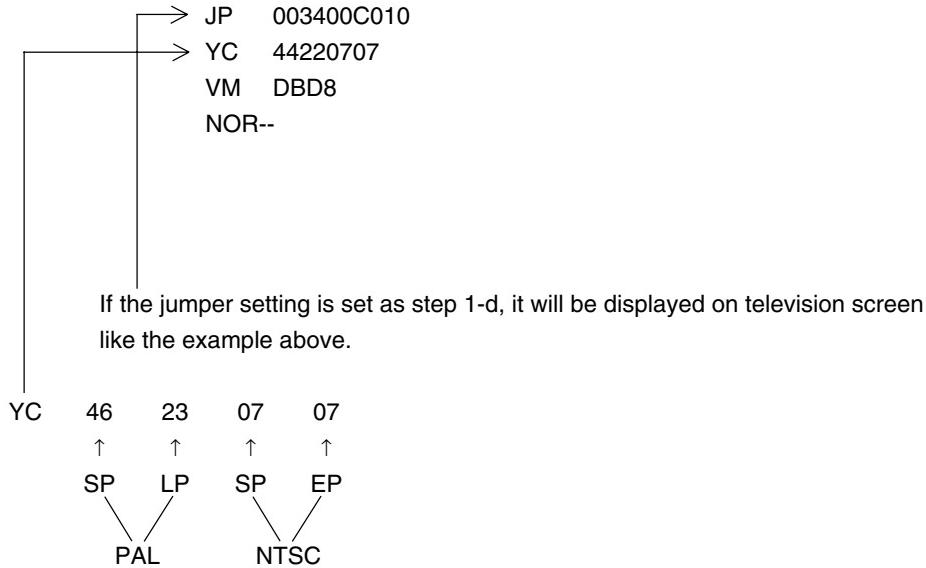
b. Using the CHANNEL (+) and (-) buttons, select the right function numbers continued from recording preset number as has been JP0~JP39, which appear in the VCR LCD display, referring to the E²PROM map.

c. Example:



3. Finally make for a moment short-circuit test point (TP801 and TP803), both located at the VCR Operation PWB to clear the TEST mode.

4. Jumper setting of JP0 to JP39 in hexadecimal notation and REC current setting.
 - a. Check the power on. (Power is ON.)
 - b. Make short-circuit test point (TP801 and TP803) and hold the point.
Be sure that all the VCR LCD displays light up into the TEST mode.
 - c. The jumper setting in hexadecimal notation and REC current setting will be displayed on the television screen (upper left).
 - d. Example:



5. Finally release the test point to return to normal screen (E-E mode).

E²PROM MAP

Jumper No.	Model Name Jumper Name	DV-NC65S	DV-NC65H	DV-NC70H
JP0	Colour0	1	0	0
JP1	Colour1	0	0	0
JP2	VPS/PDC	1	1	1
JP3	OEM	0	0	0
JP4	Low power	0	0	0
JP5	X400 FF/REW	1	1	1
JP6	System0	0	0	0
JP7	System1	0	0	0
JP8	Tuner0	0	1	1
JP9	Tuner1	0	1	1
JP10	Tuner2	0	0	0
JP11	RF_out_set_off	1	1	1
JP12	Dual scart	1	1	1
JP13	Front AV	1	1	1
JP14	LP	0	0	0
JP15	EP	1	1	1
JP16	G-CODE0	1	1	1
JP17	G-CODE1	0	1	1
JP18	NICAM	1	1	1
JP19	IGR	1	0	0
JP20	Surround	0	0	0
JP21	Decoder	1	1	1
JP22	Sort	1	1	1
JP23	Hifi	1	1	1
JP24	16:09	1	1	1
JP25	Sat_ctl	0	0	0
JP26	Post_code	0	1	1
JP27	DNR	0	0	0
JP28	R/C 1-2	0	0	0
JP29	Posi84	1	1	1
JP30	Internal_Sat_ctl	0	0	0
JP31	Gamma	0	0	0
JP32	HEAD0	0	0	0
JP33	HEAD1	1	1	1
JP34	HEAD2	0	0	0
JP35	NTSC SKEW	0	0	0
JP36	NTSC_PB	1	1	1
JP37	SQPB	1	1	1
JP38	Slow_Atr_off	0	0	0
JP39	Audio insert	0	0	0
	PAL SP	46	46	46
	PAL LP	23	23	23
	NTSC SP	07	07	07
	NTSC EP	07	07	07
	DISPLAY	528BDE1223	42BB7E5223	42BB7E5223

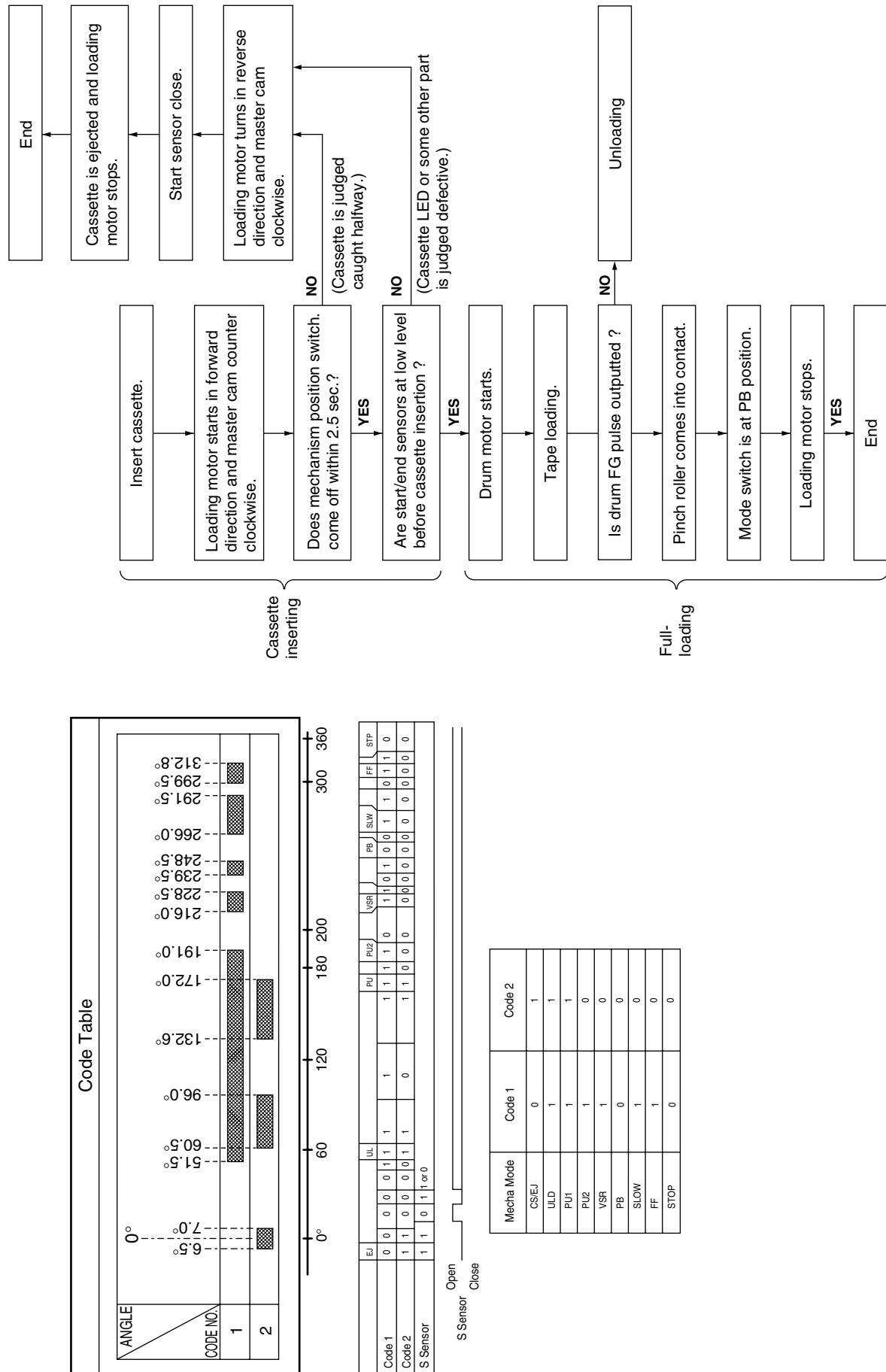
0: LIGHT UP 1: FLASHING

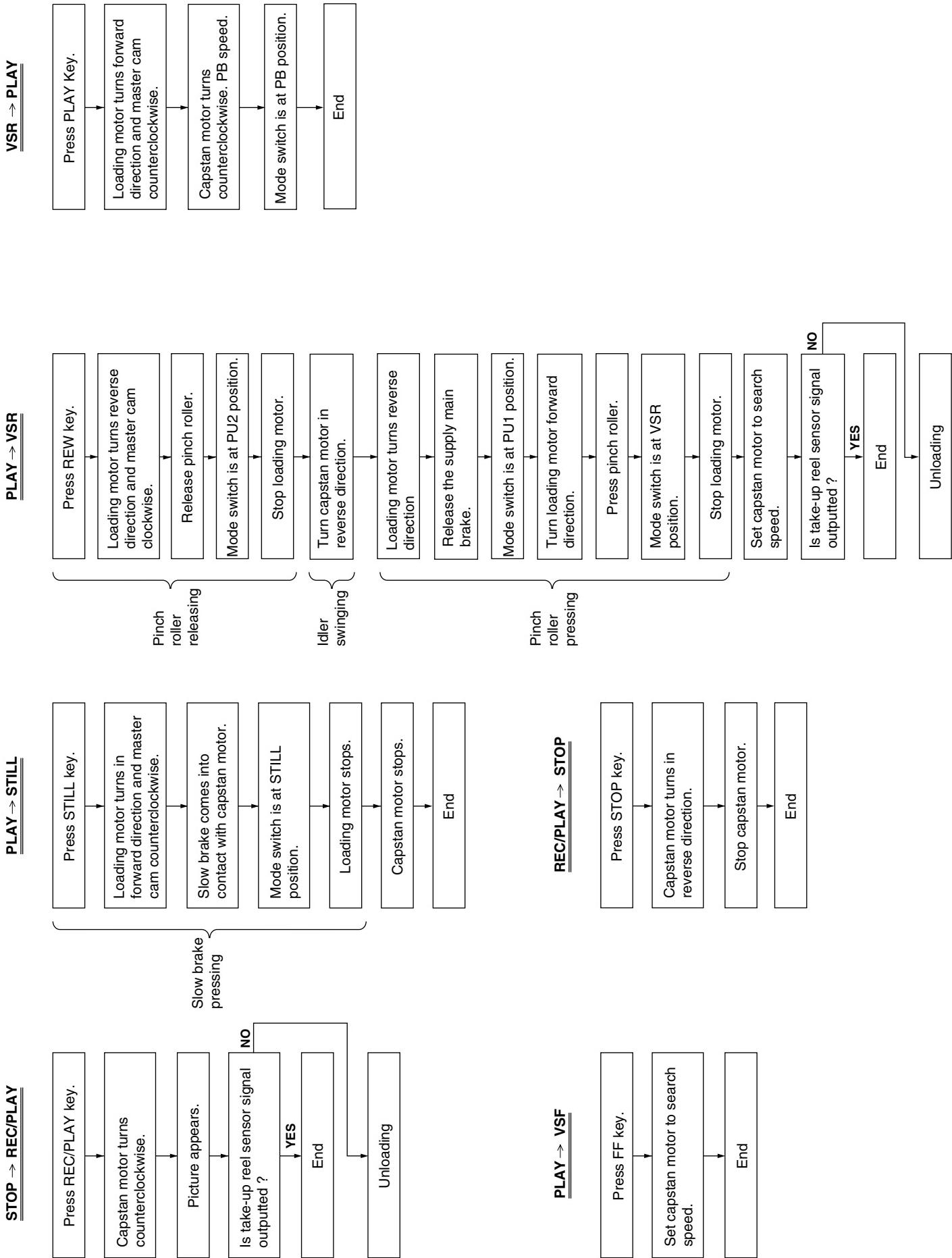
10. MECHANISM OPERATION FLOWCHART AND TROUBLESHOOTING GUIDE

MECHANISM OPERATION FLOWCHART

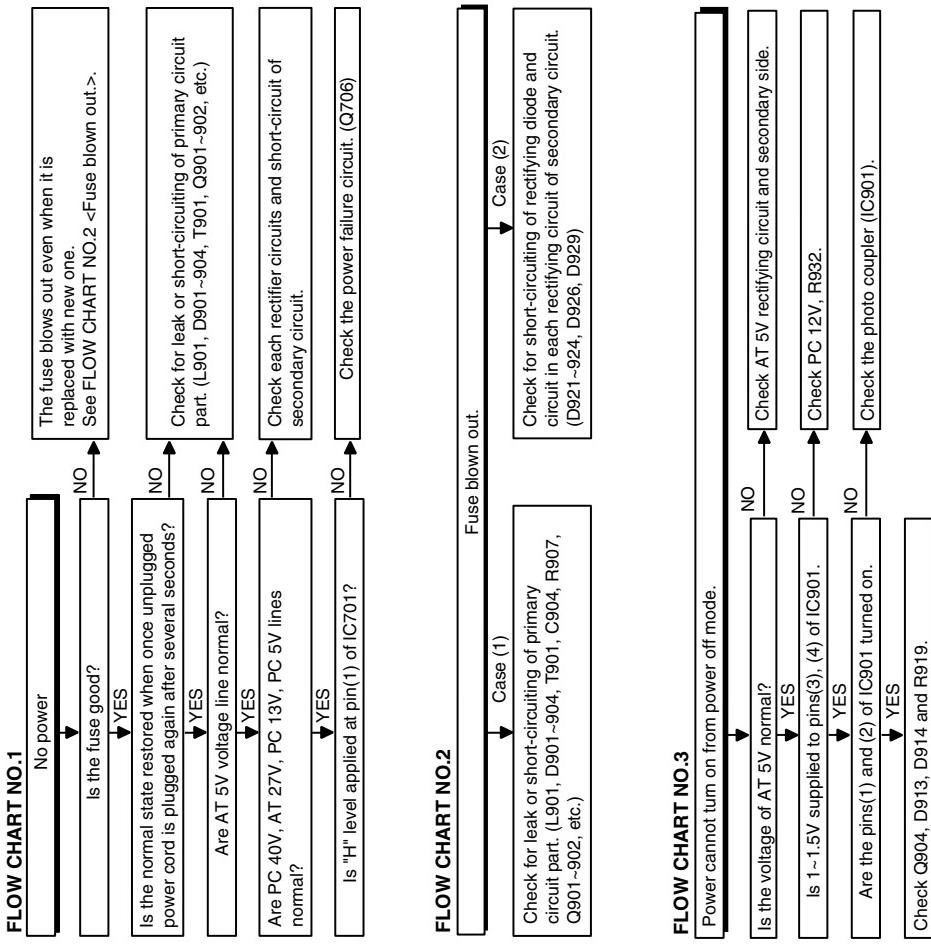
* This flowchart describes the outline of the mechanism's operation, but does not give its details.

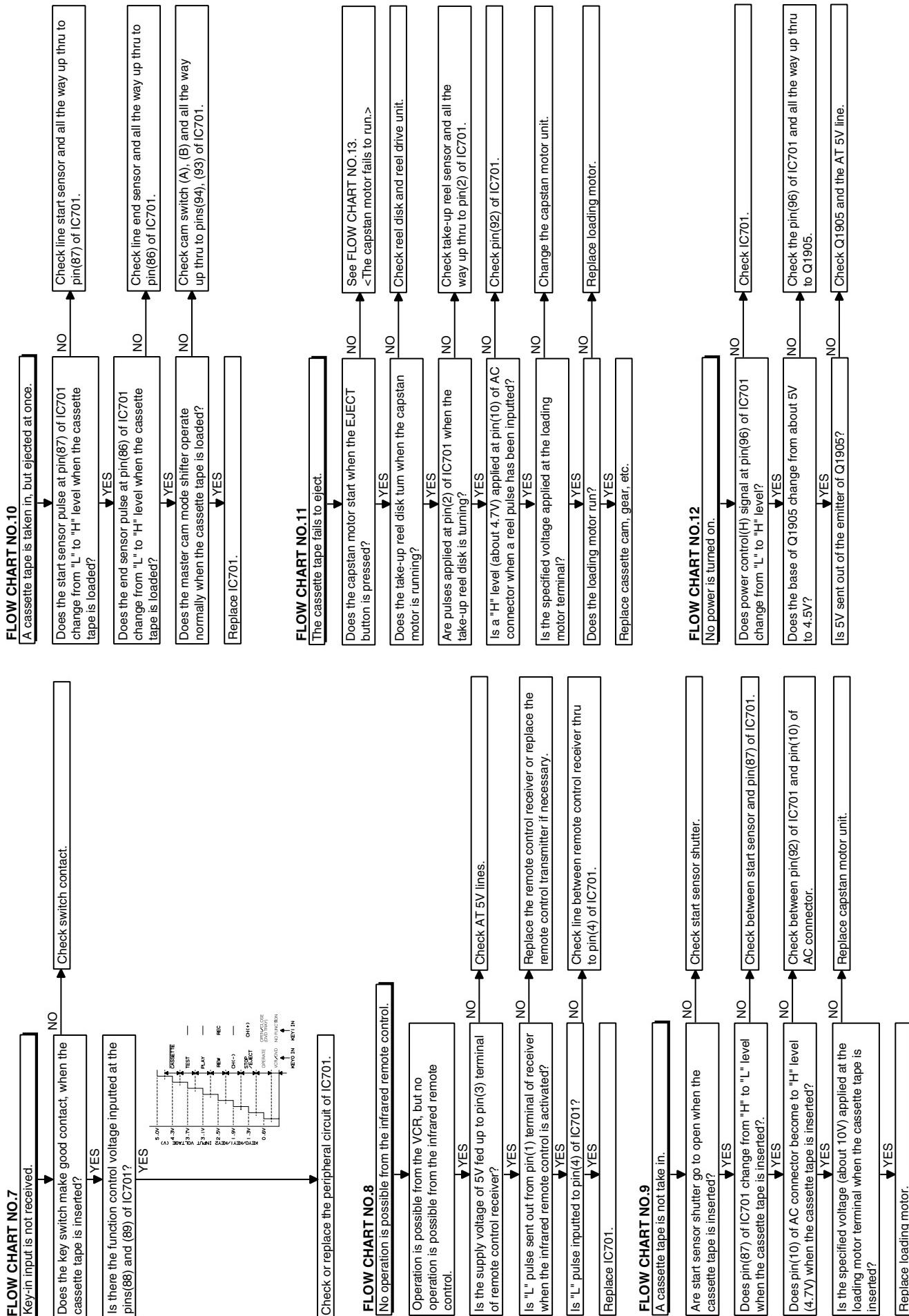
CASSETTE INSERTION → STOP

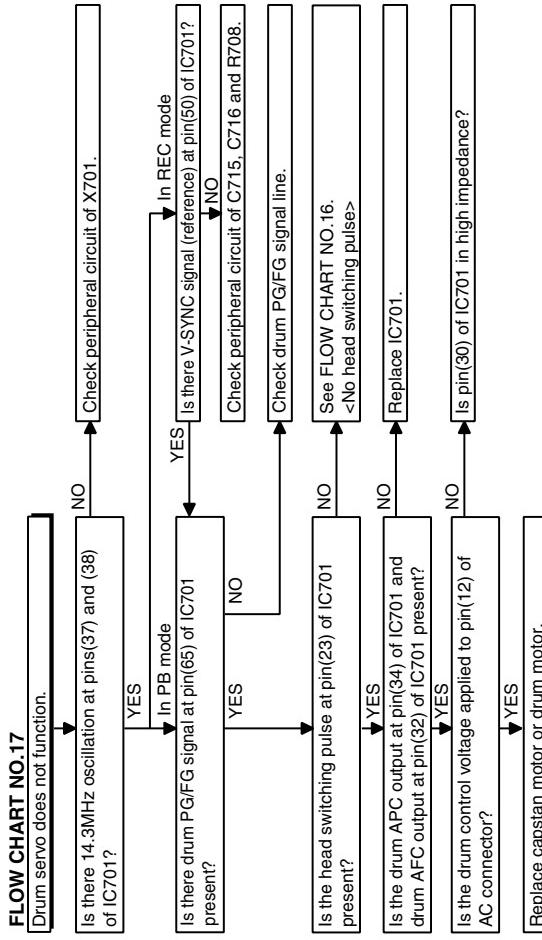
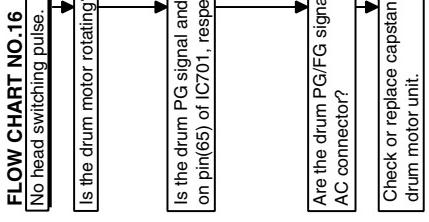
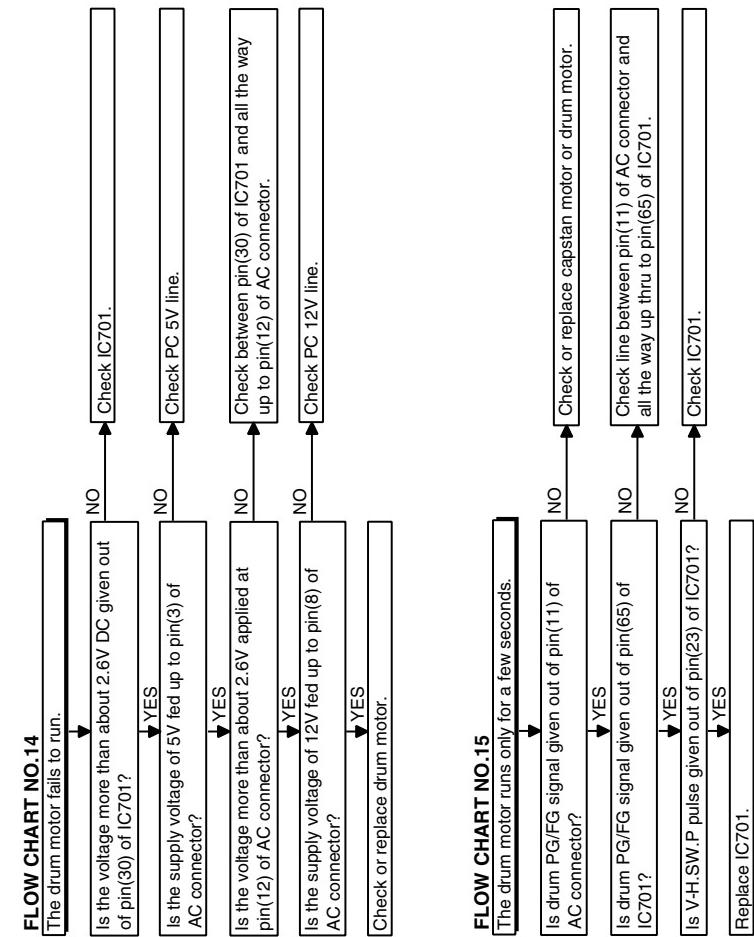
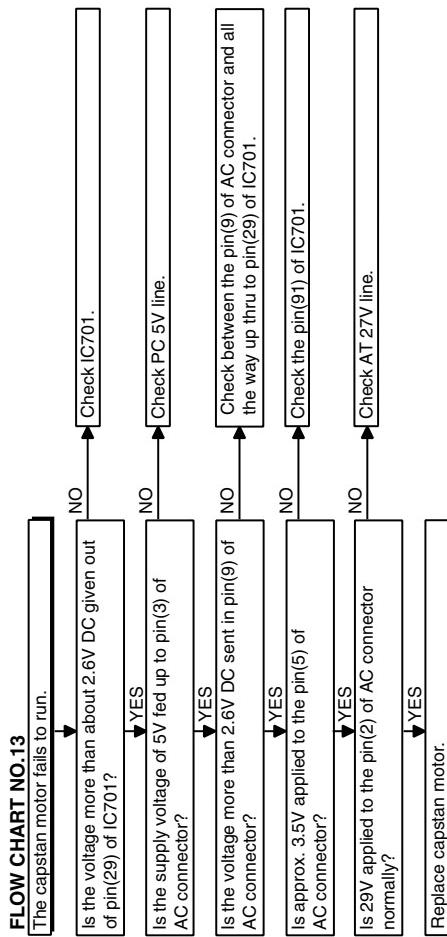




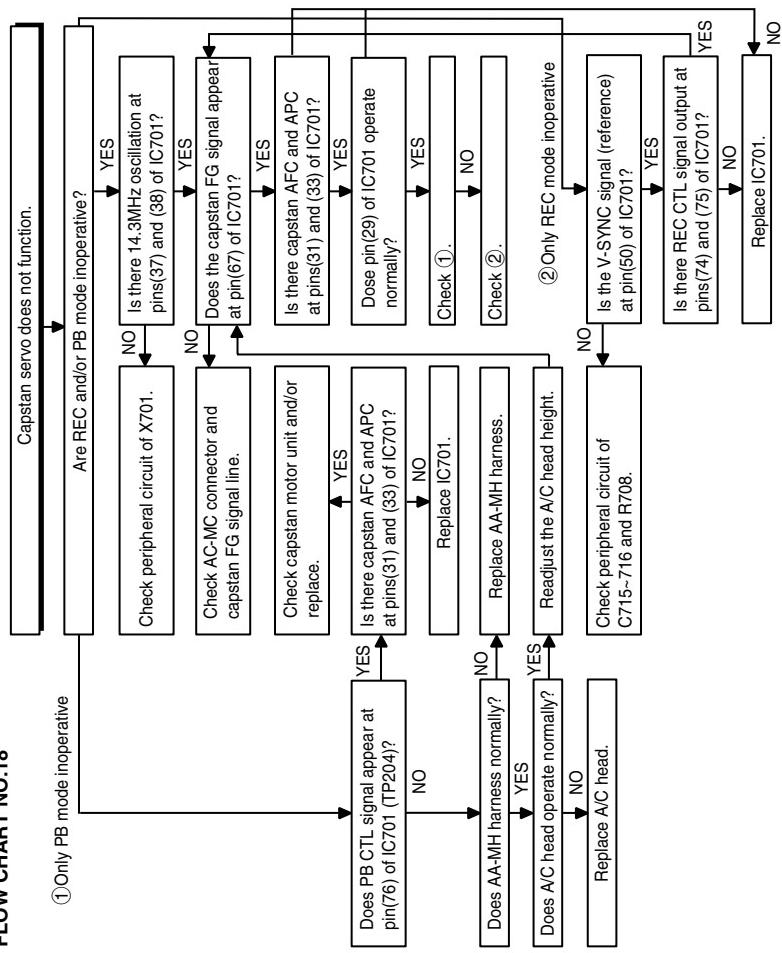
11. TROUBLESHOOTING (VCR)



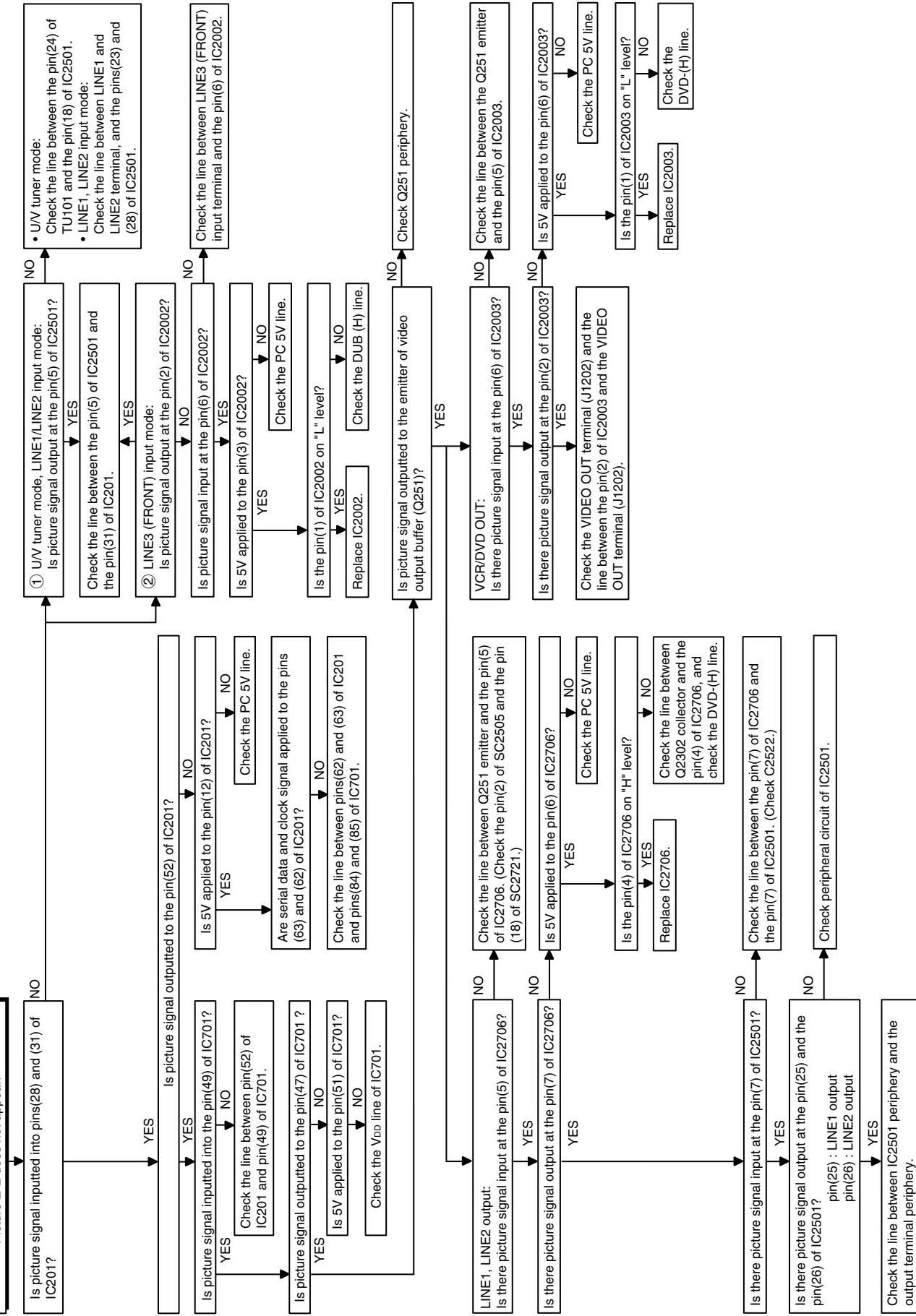




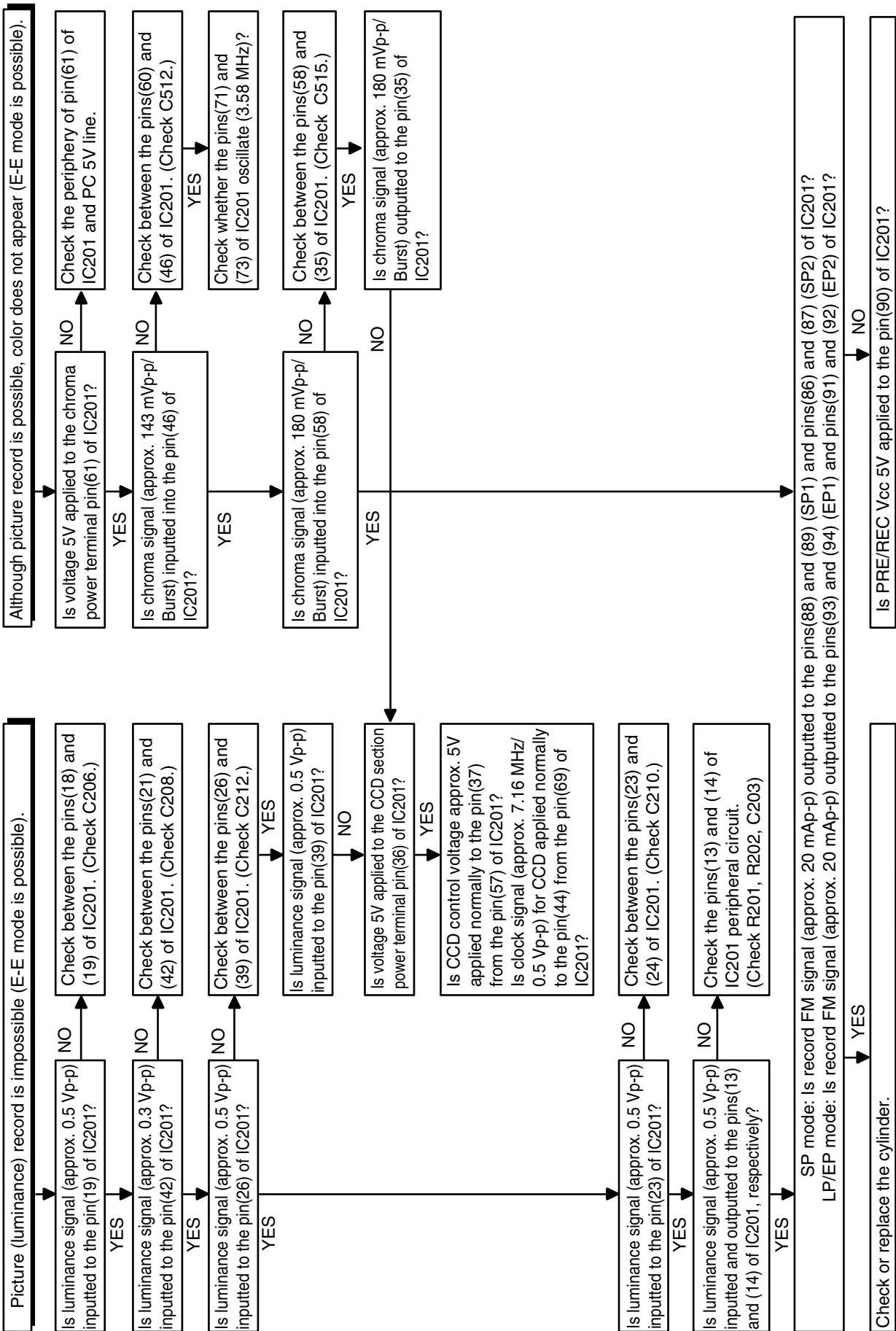
FLOW CHART NO.18



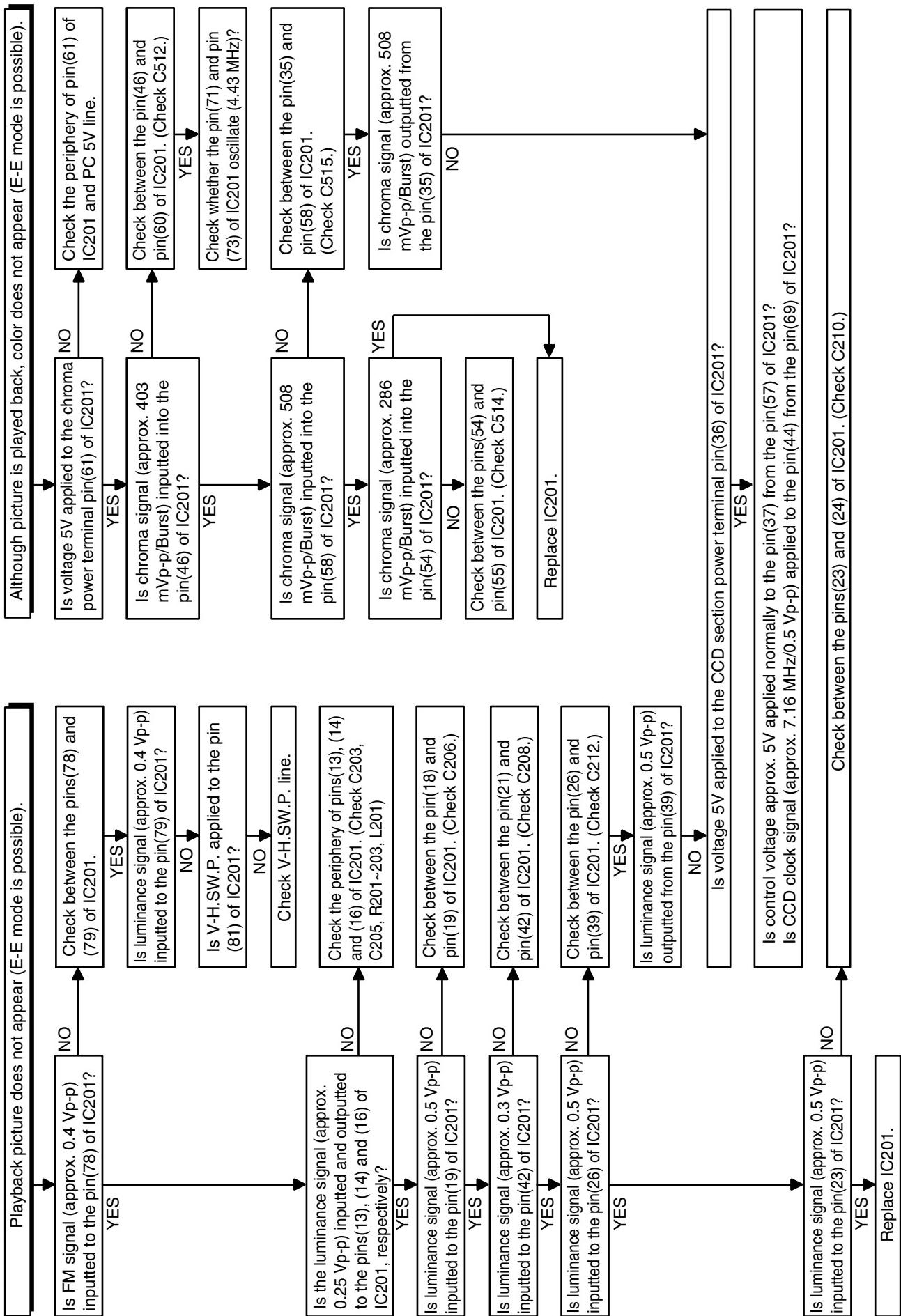
FLOW CHART NO.19



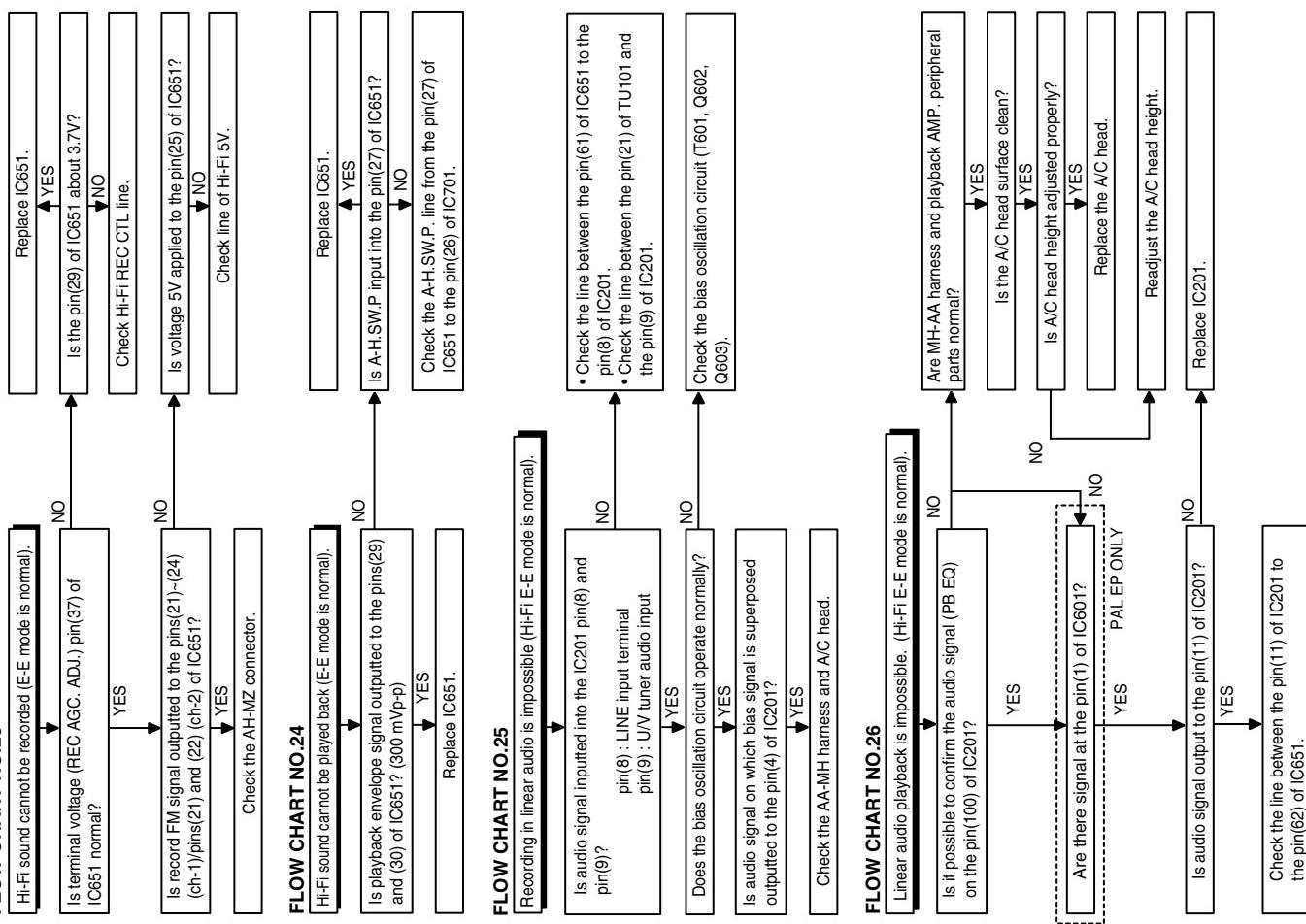
FLOW CHART NO.20



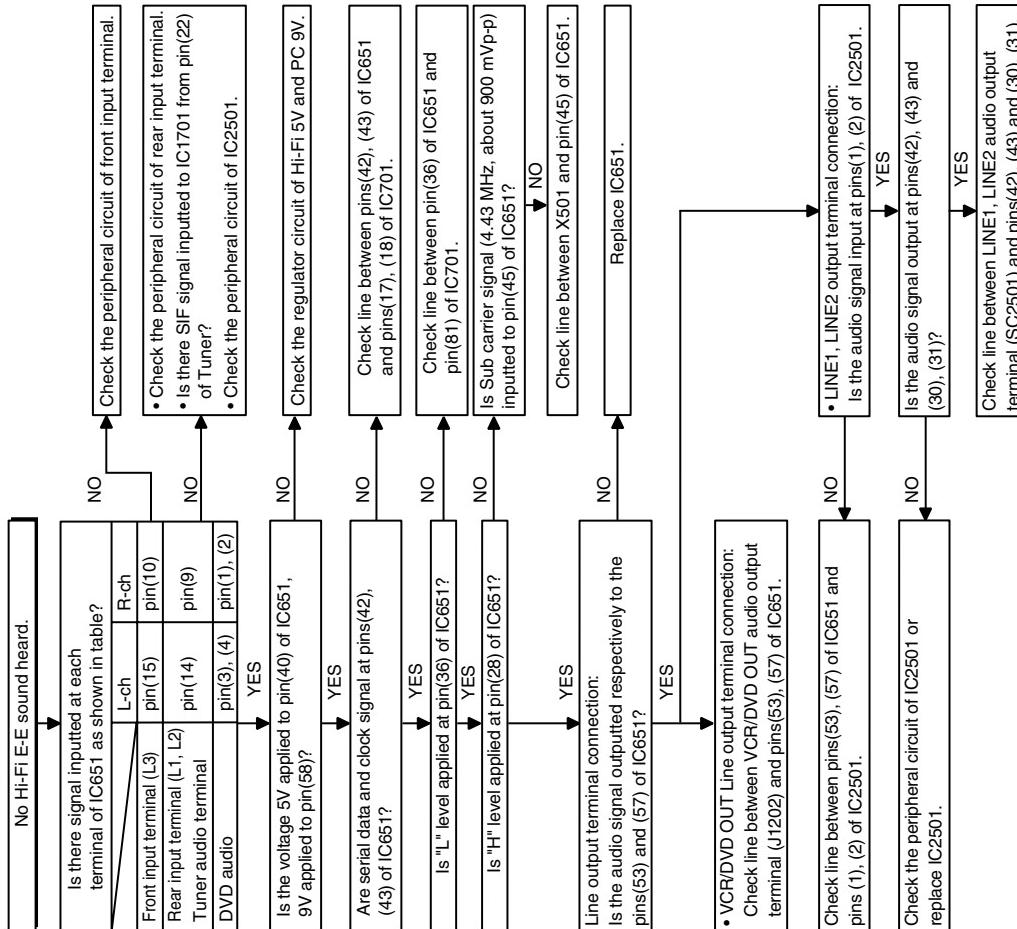
FLOW CHART NO.21



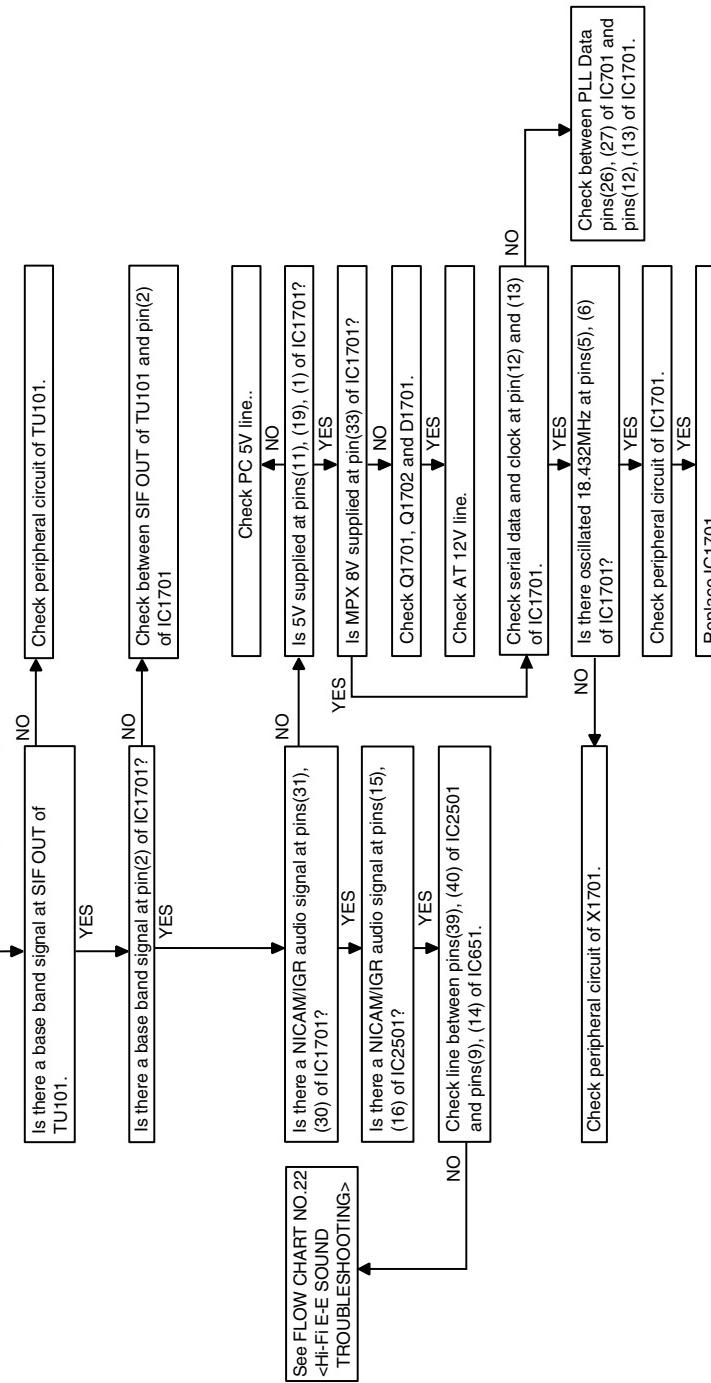
FLOW CHART NO.23



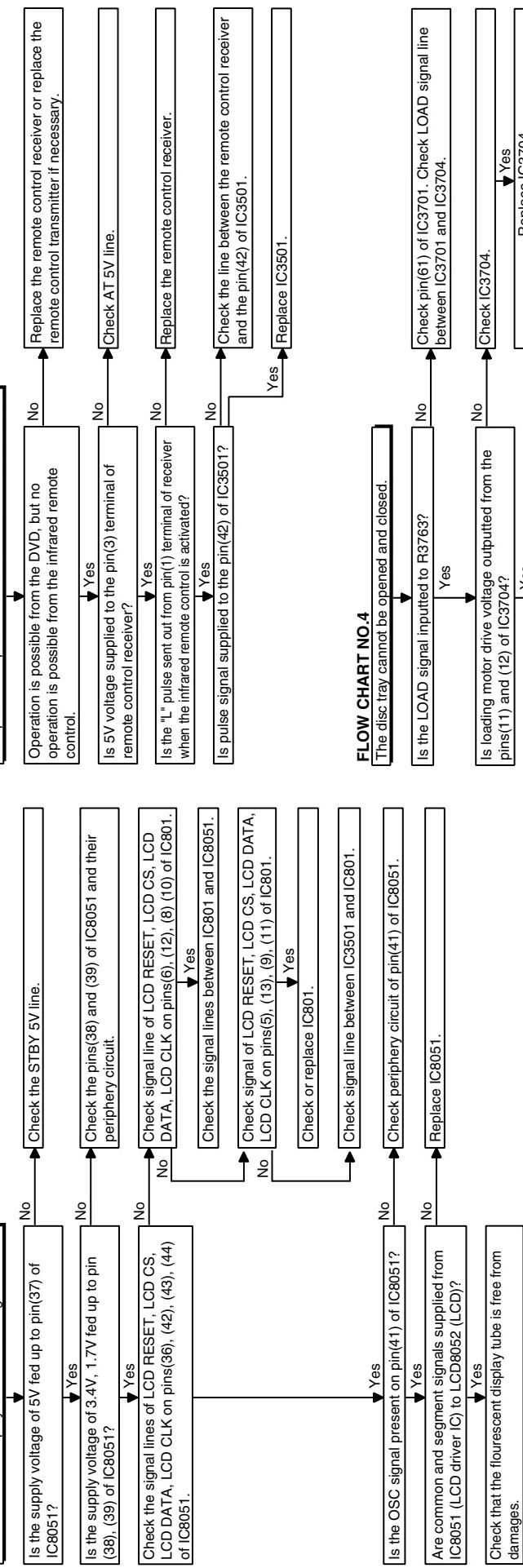
FLOW CHART NO.22



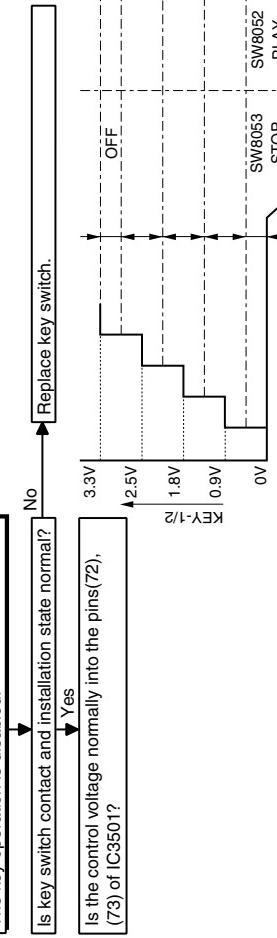
FLOW CHART NO.27: NICAM/IGR TROUBLESHOOTING



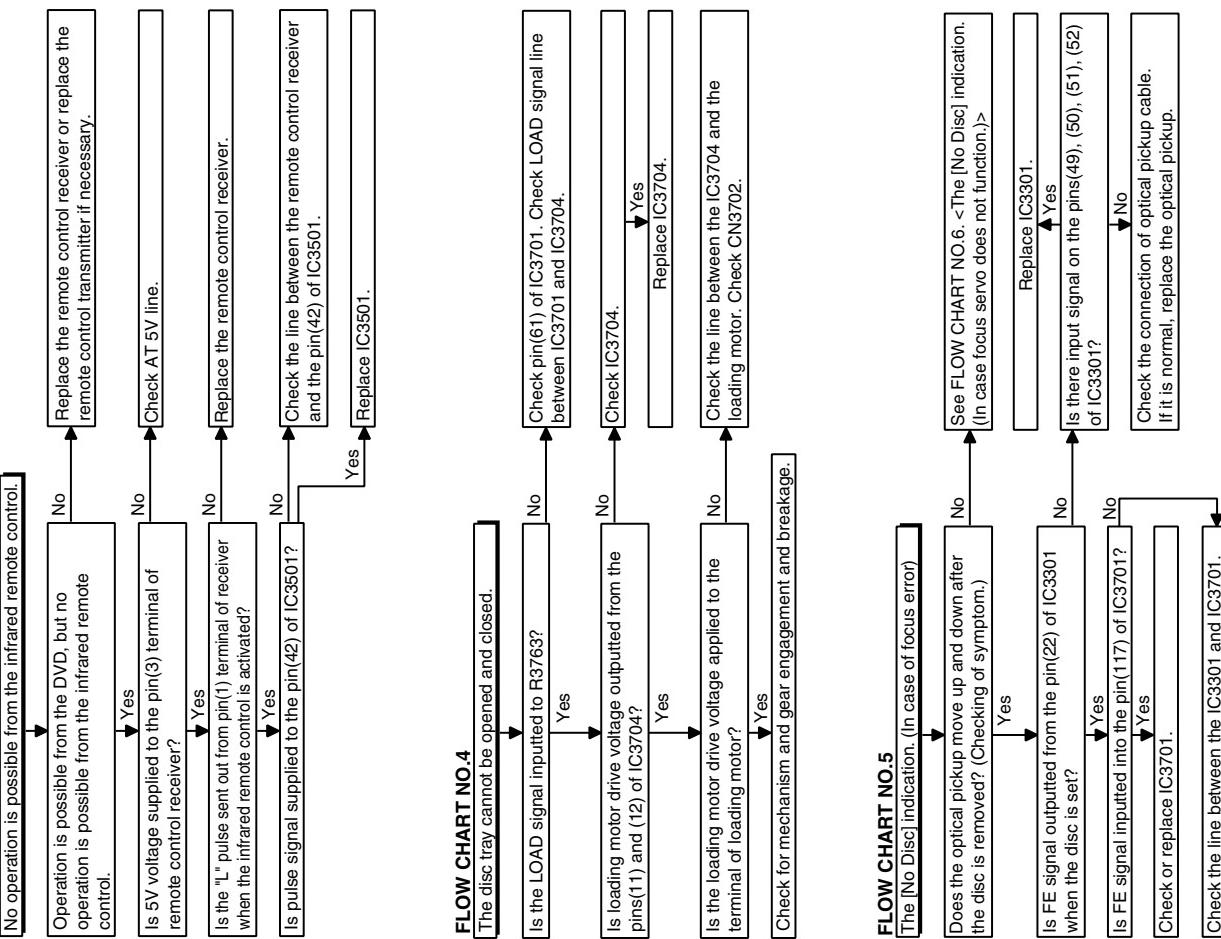
FLOW CHART NO.1
The fluorescent display tube does not light.



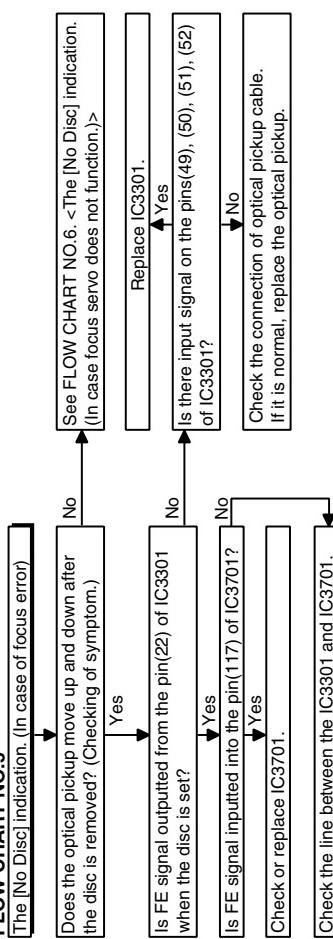
FLOW CHART NO.2
The key operation is disabled.



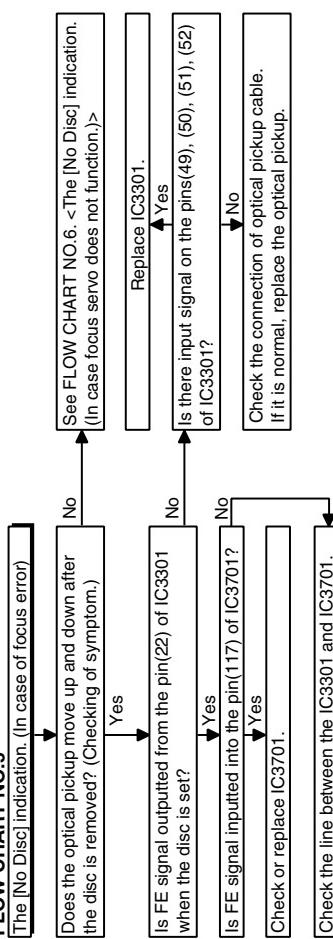
FLOW CHART NO.3
No operation is possible from the infrared remote control.



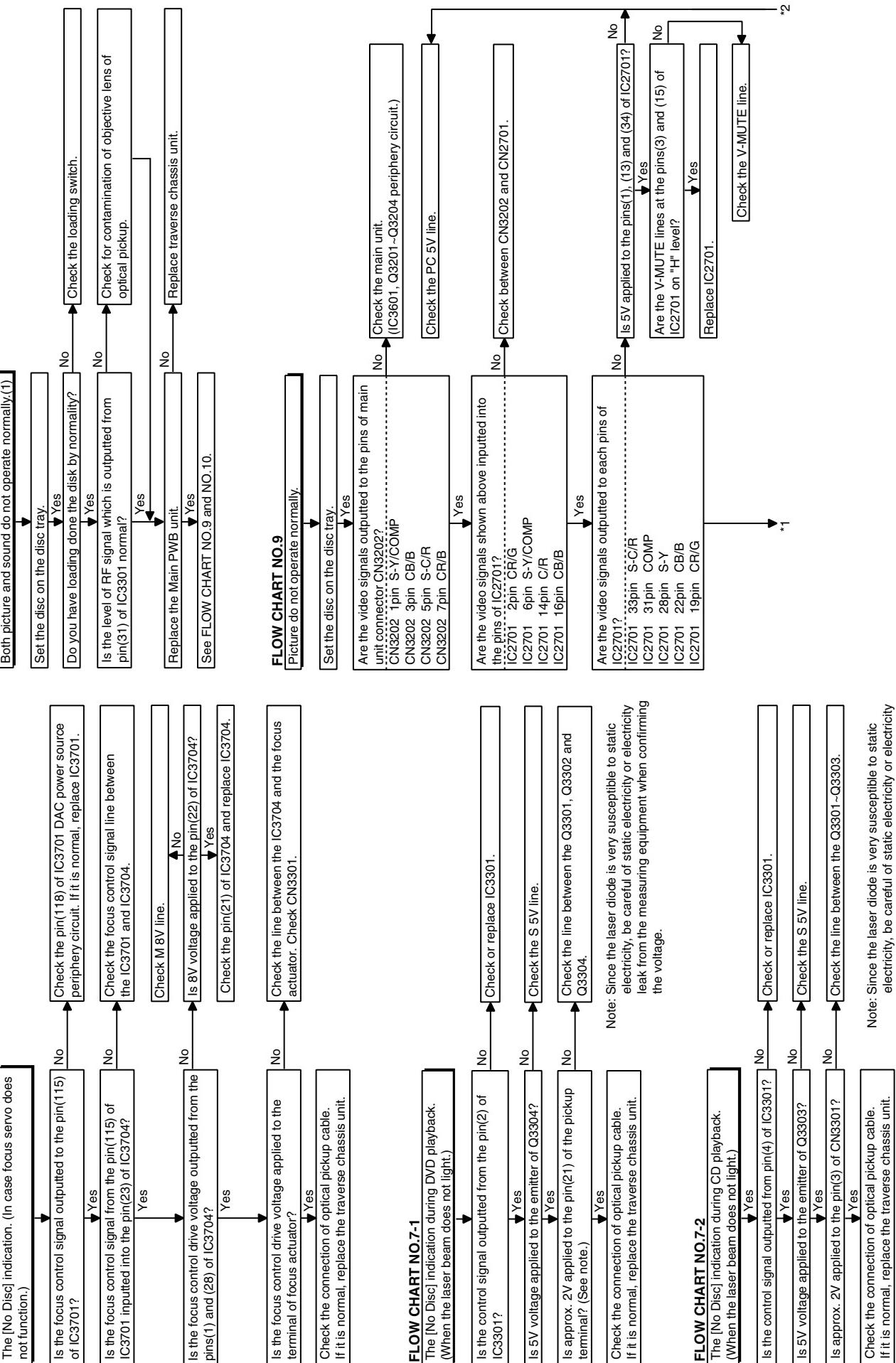
FLOW CHART NO.4
The disc tray cannot be opened and closed.



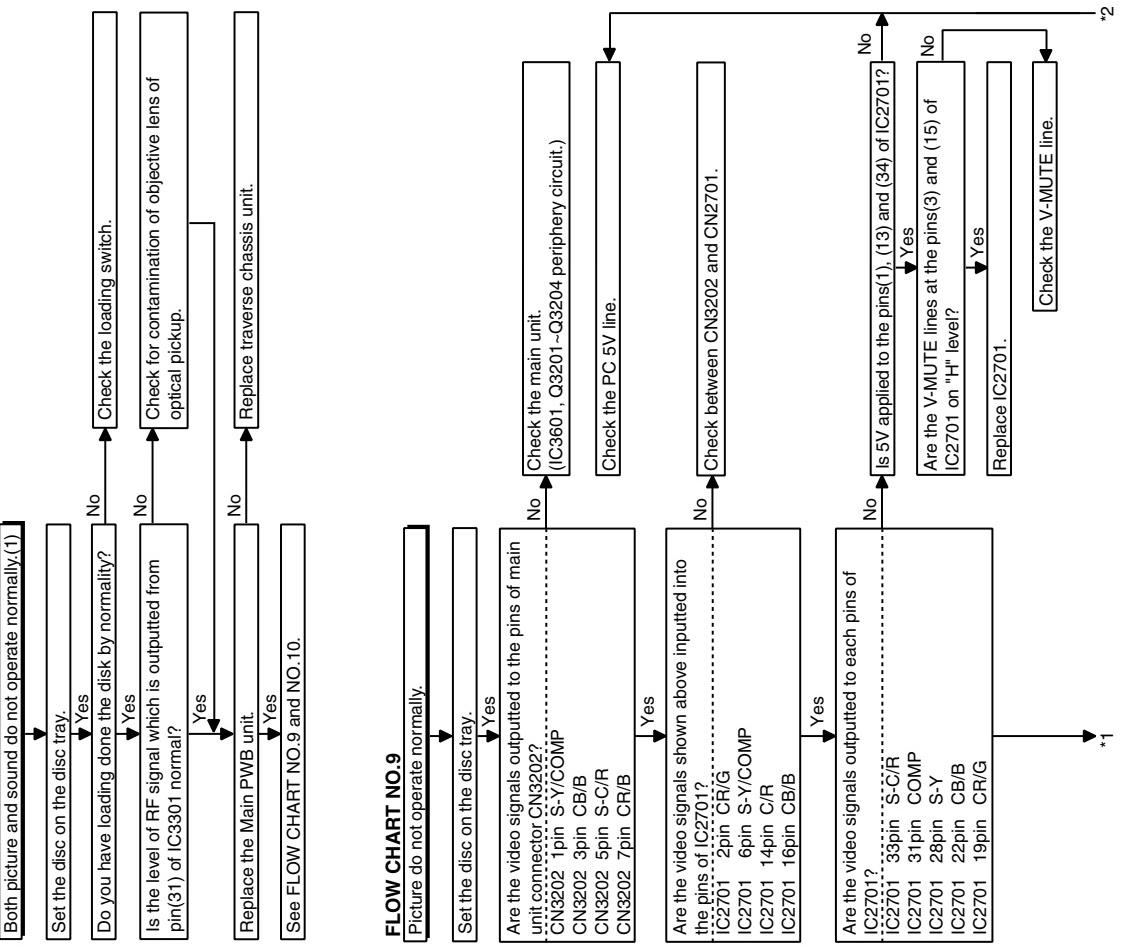
FLOW CHART NO.5
The [No Disc] indication. (In case of focus error)



FLOW CHART NO.6

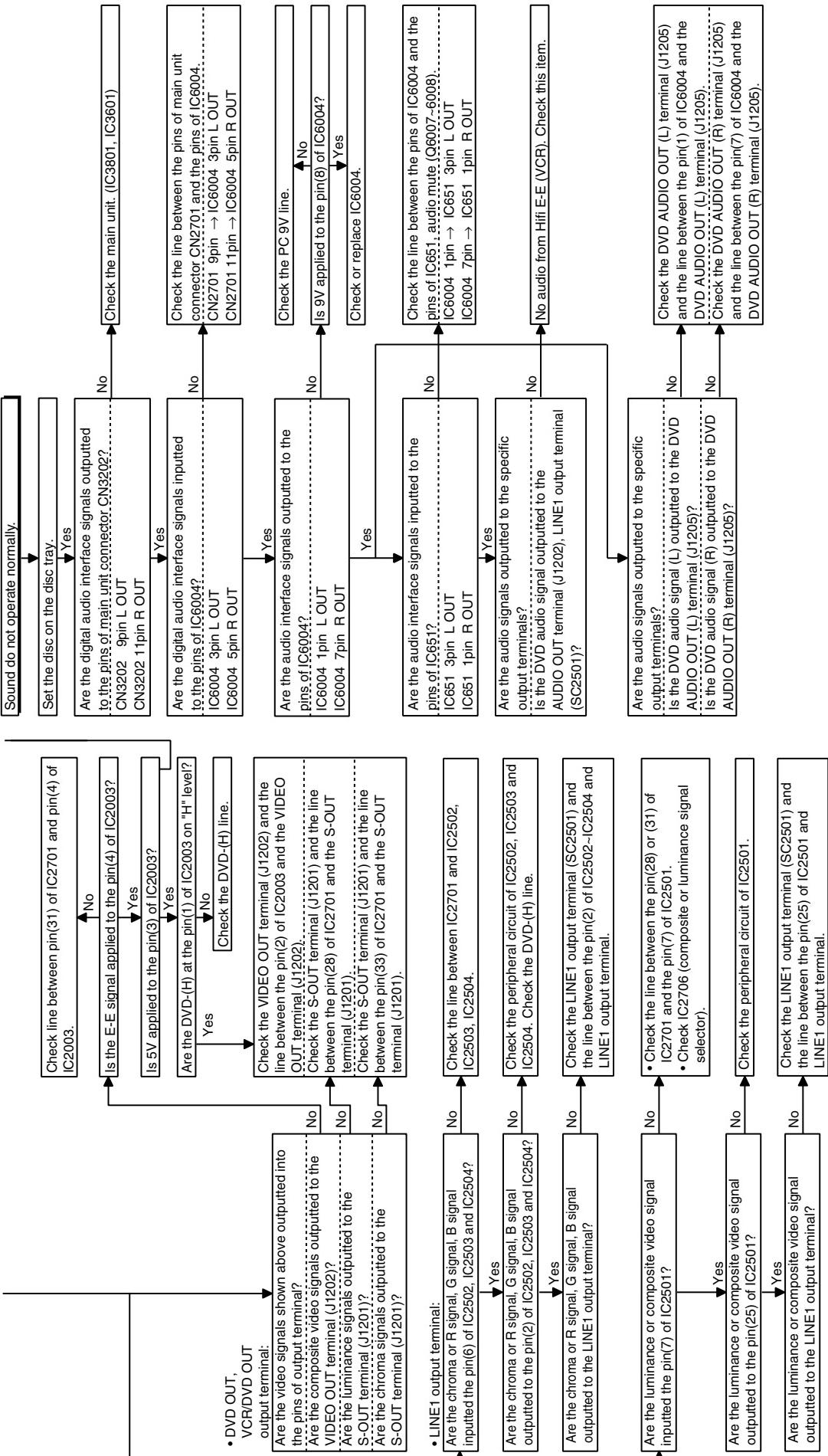


FLOW CHART NO.8



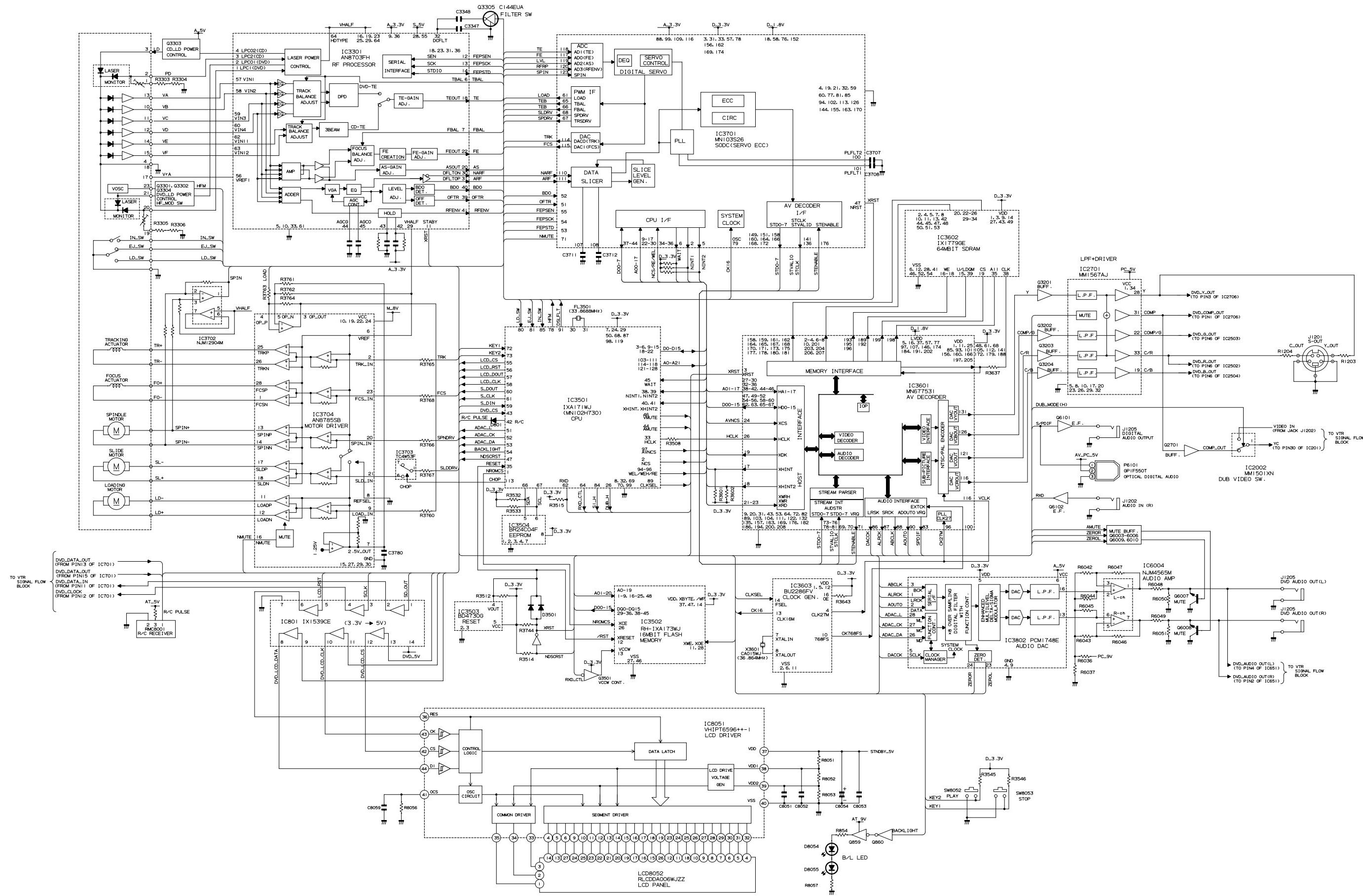
FLOW CHART NO.10

*2

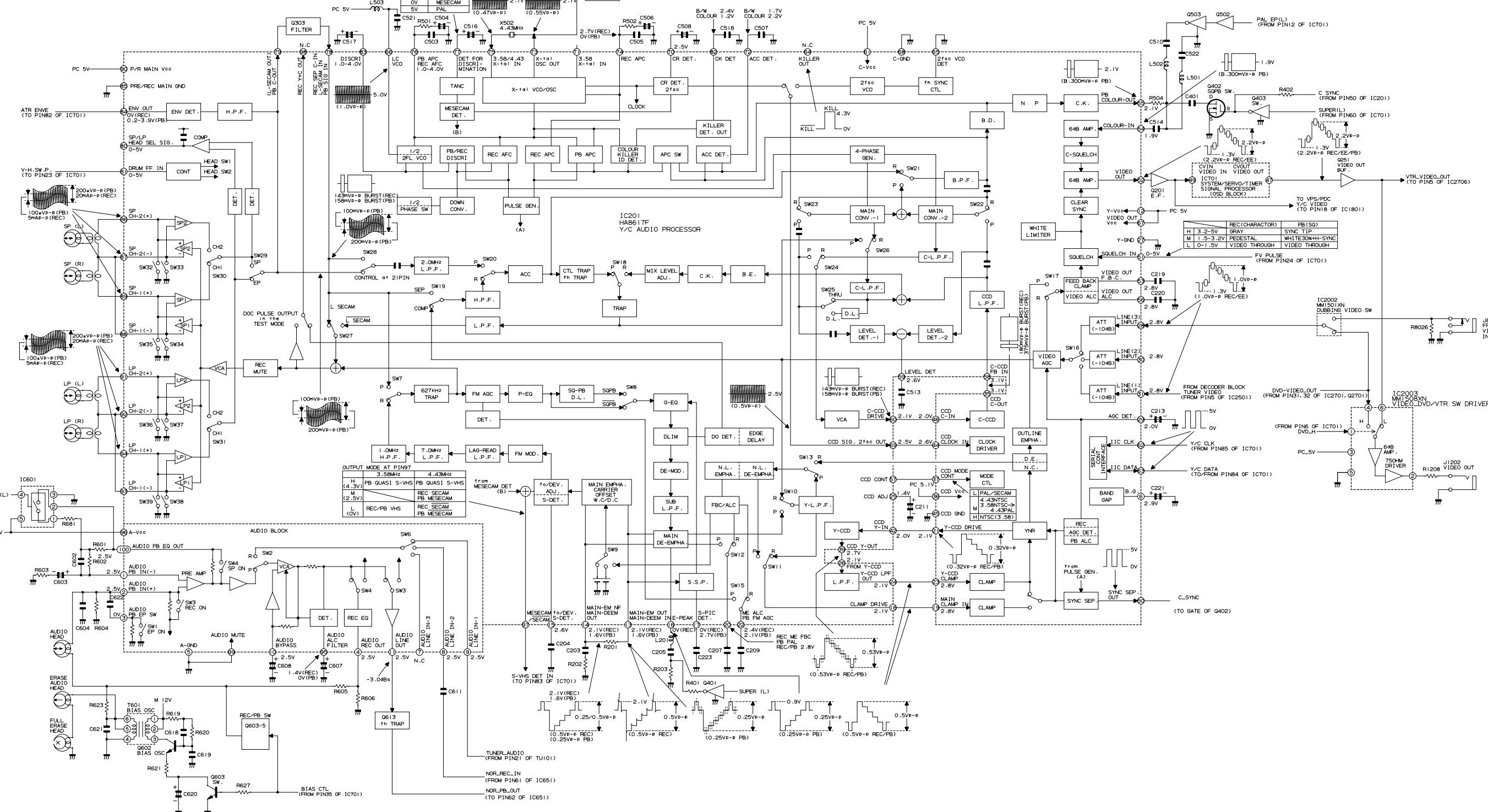


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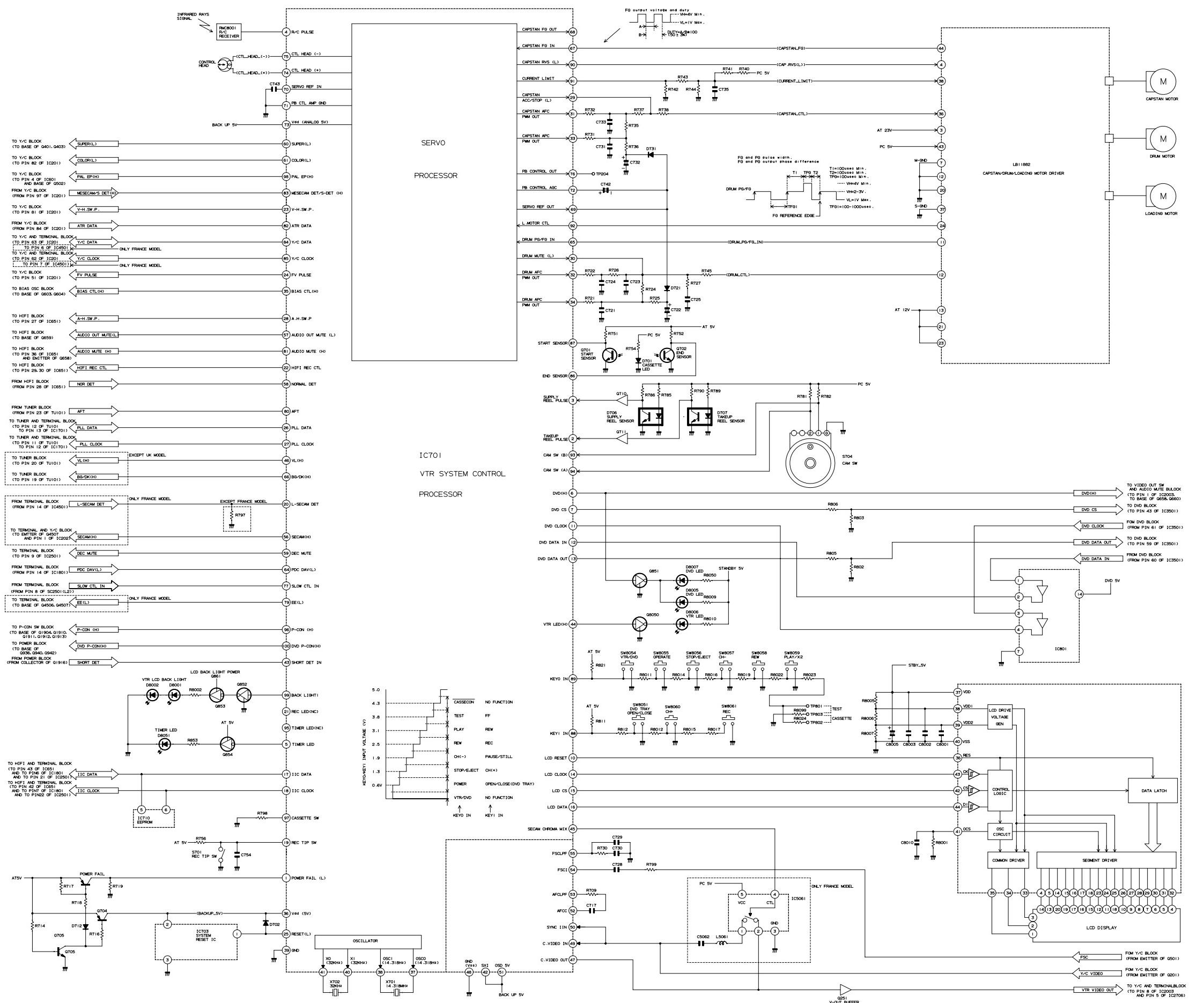
12. BLOCK DIAGRAMS 12-1. MAIN BLOCK DIAGRAM



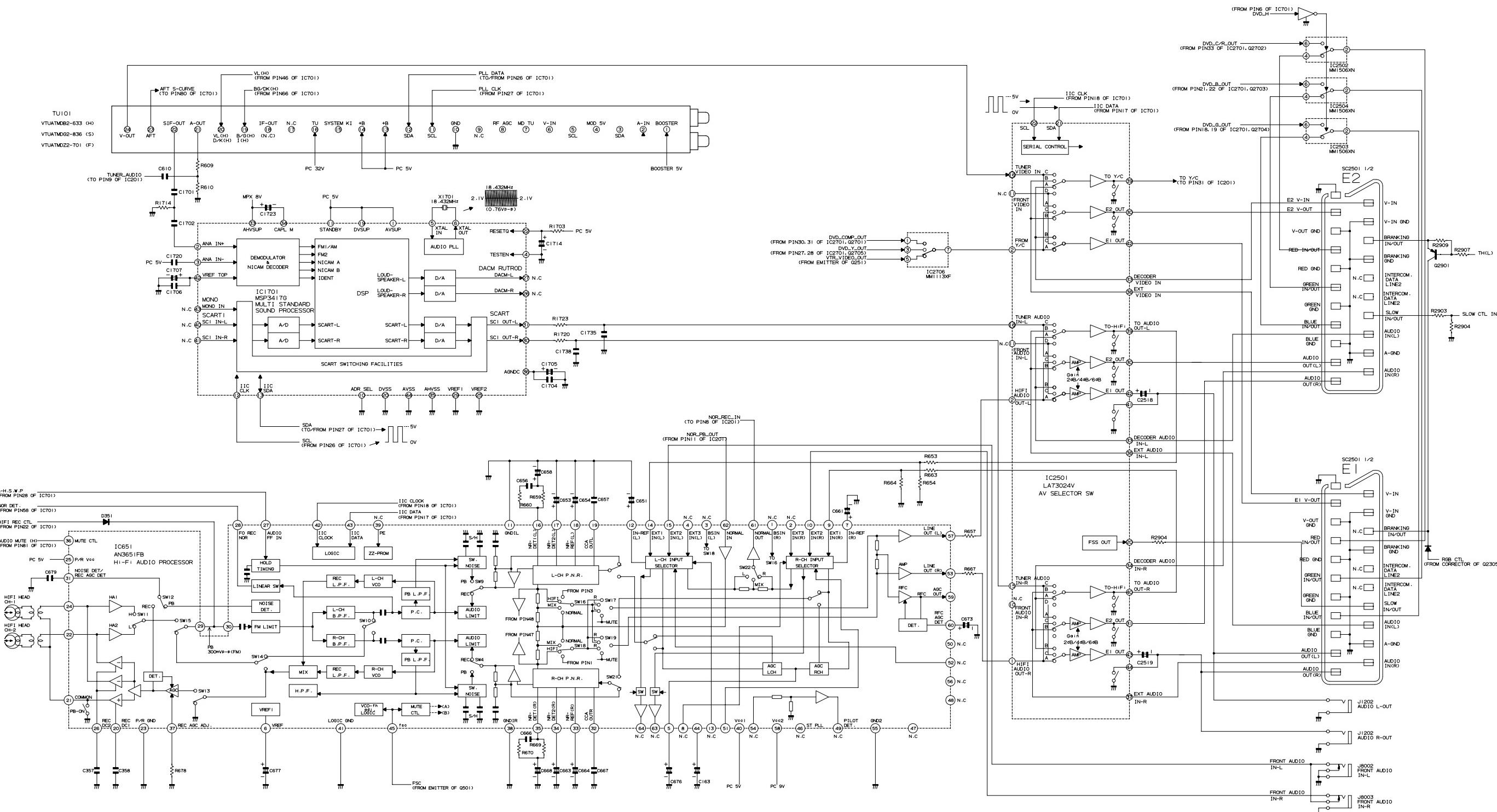
12-2. VCR SIGNAL FLOW BLOCK DIAGRAM



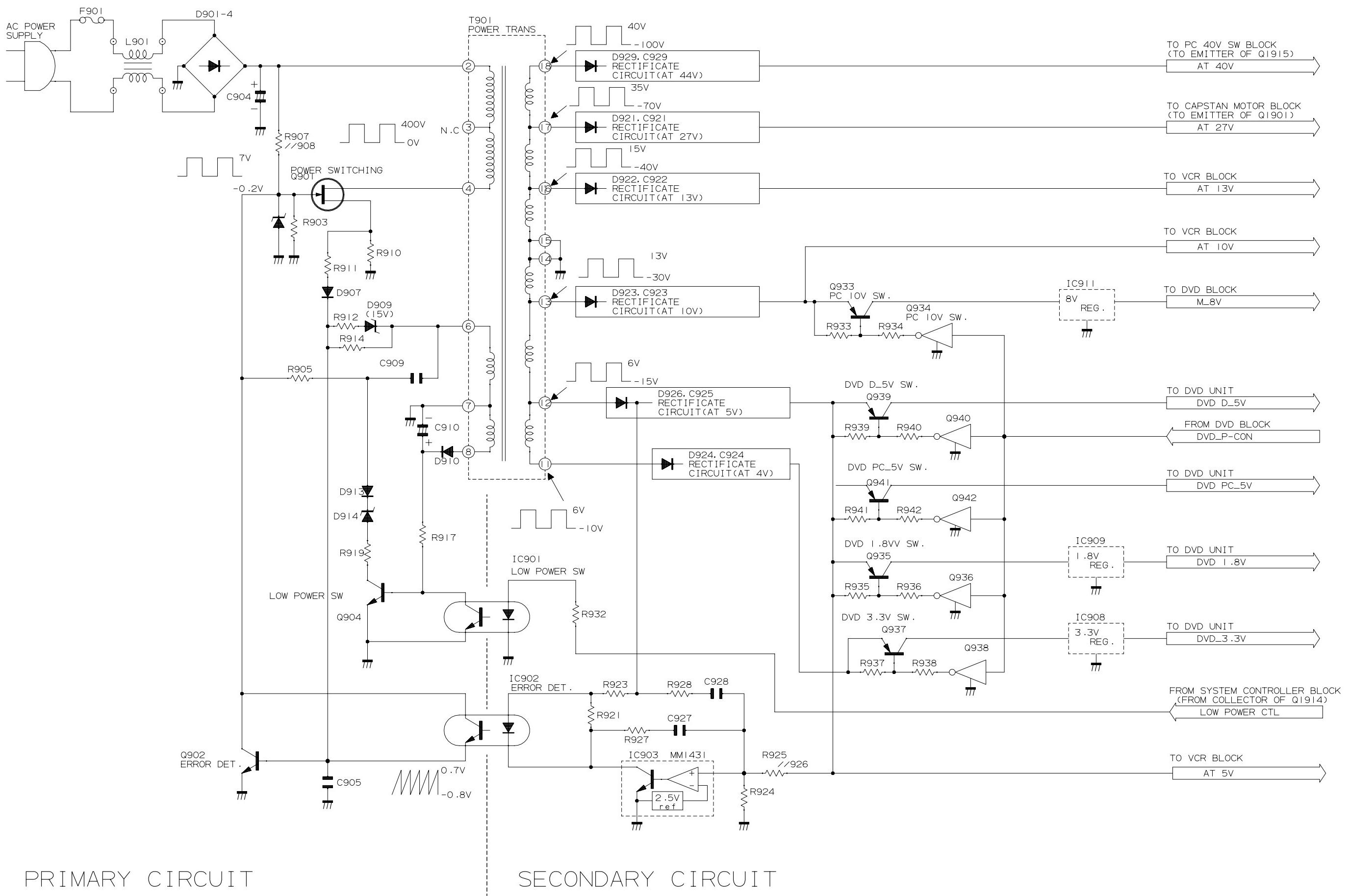
12-3. VCR SERVO BLOCK DIAGRAM



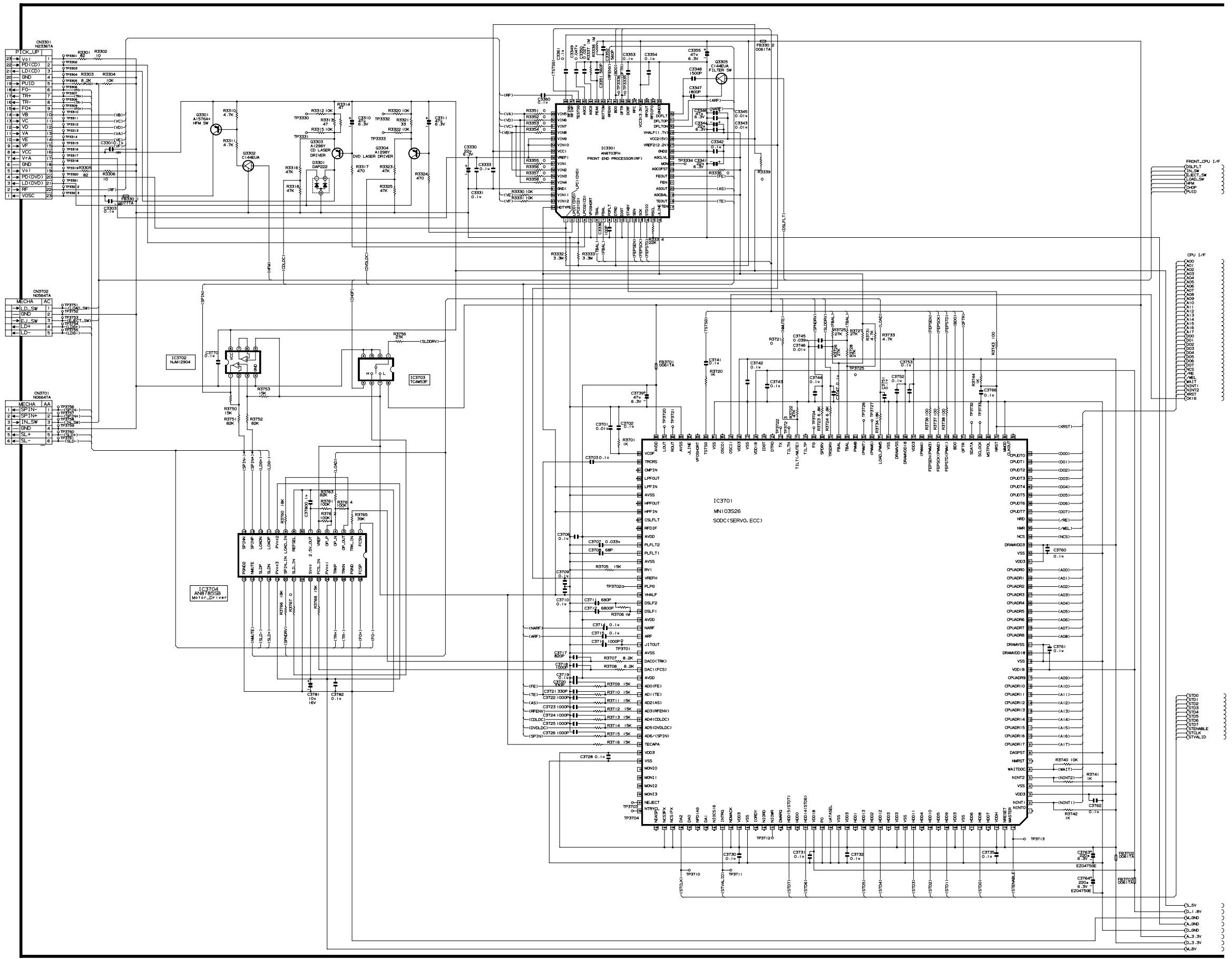
12-4. AUDIO BLOCK DIAGRAM



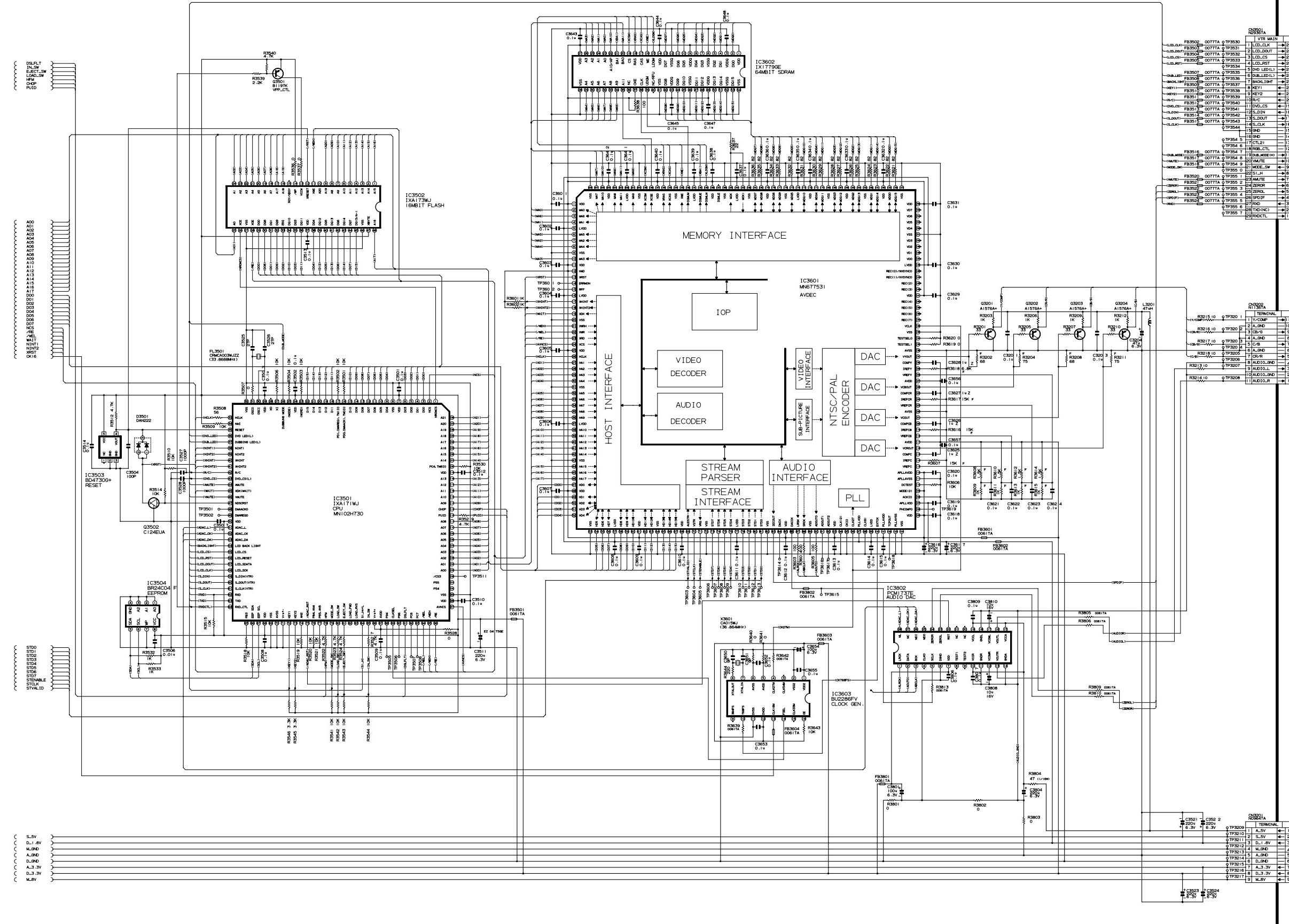
12-5. POWER BLOCK DIAGRAM



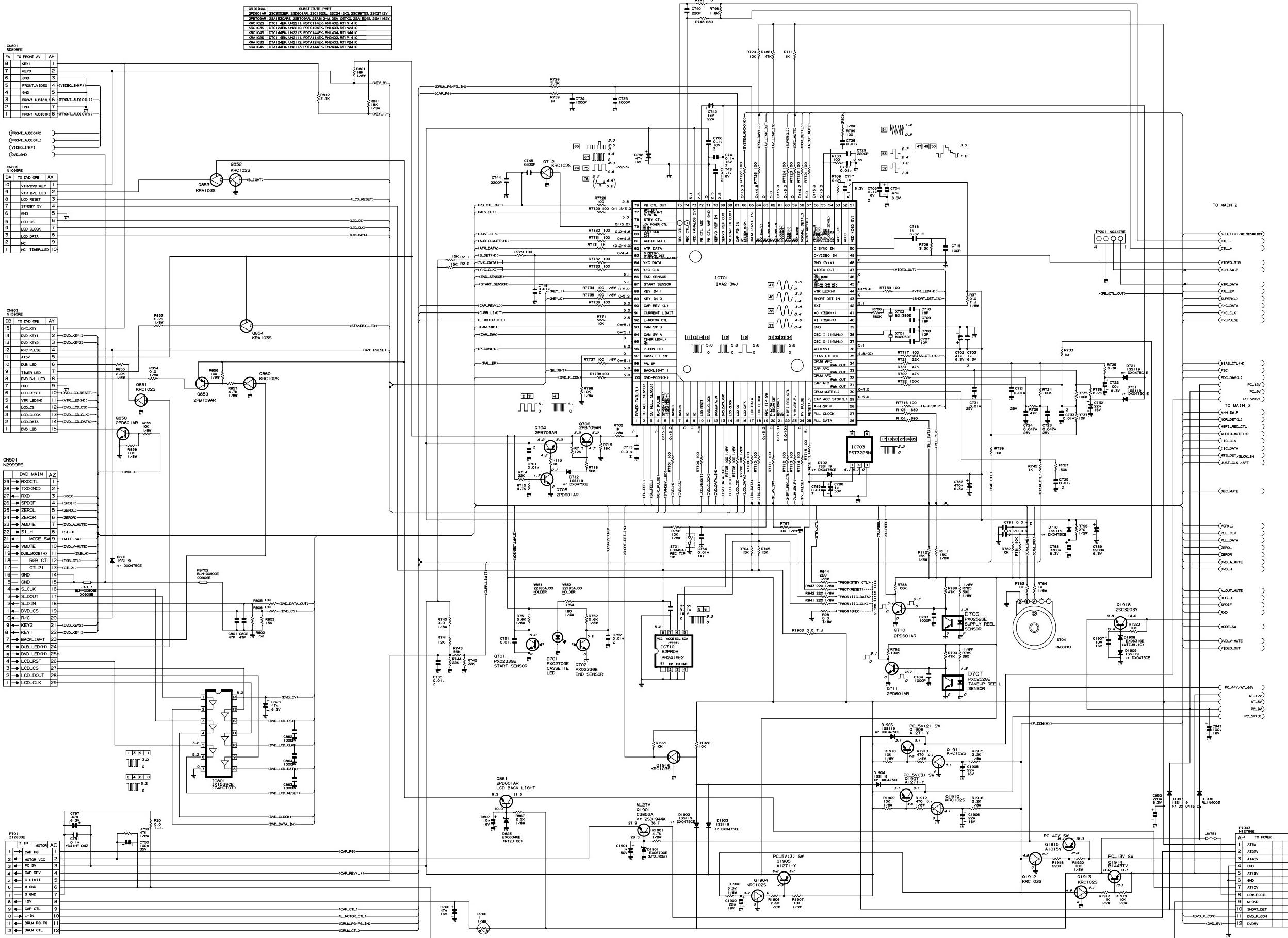
13. SCHEMATIC DIAGRAMS 13-1. DVD MAIN (1) CIRCUIT SCHEMATIC DIAGRAM



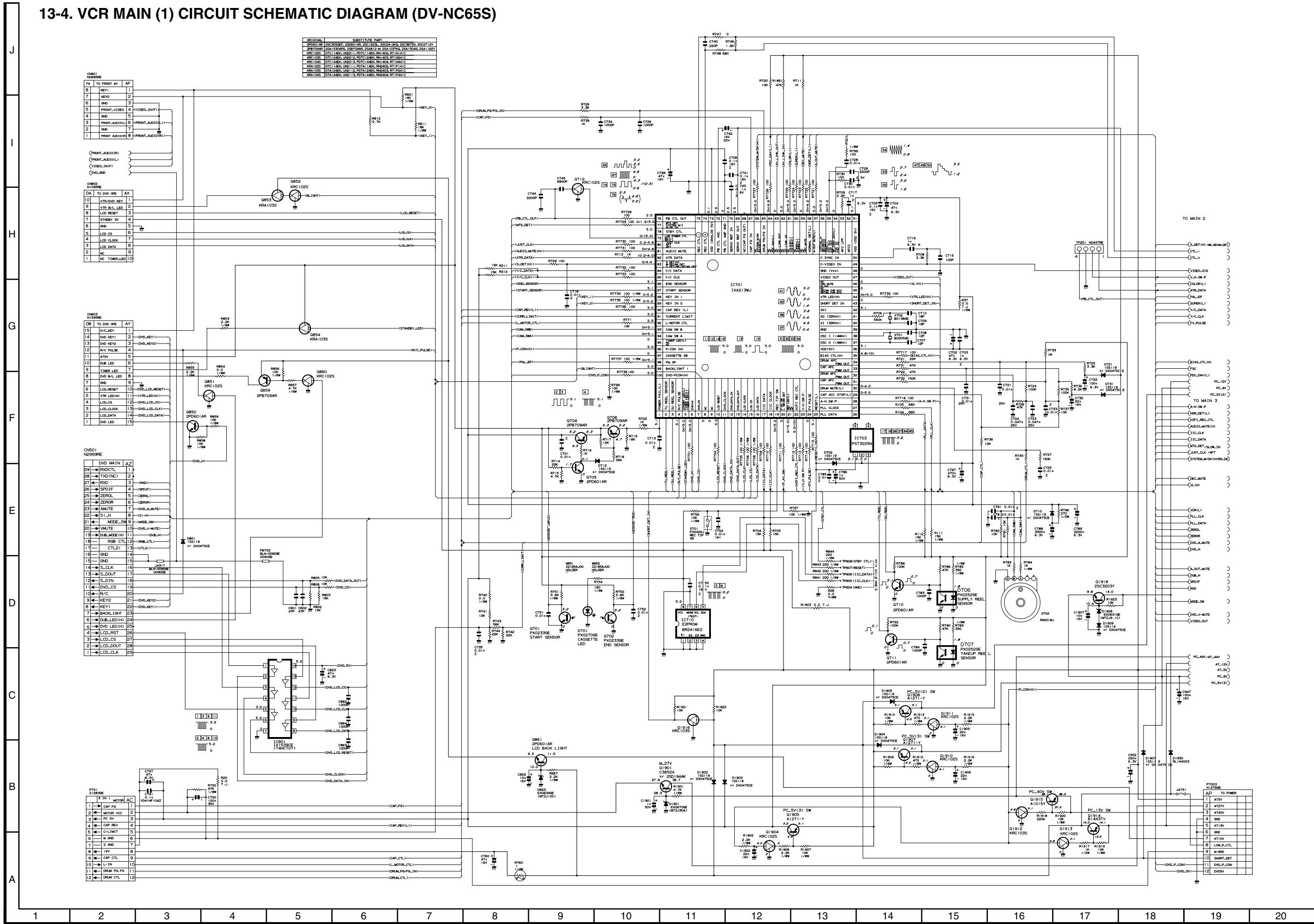
13-2. DVD MAIN (2) CIRCUIT SCHEMATIC DIAGRAM



13-3. VCR MAIN (1) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65H/70H)

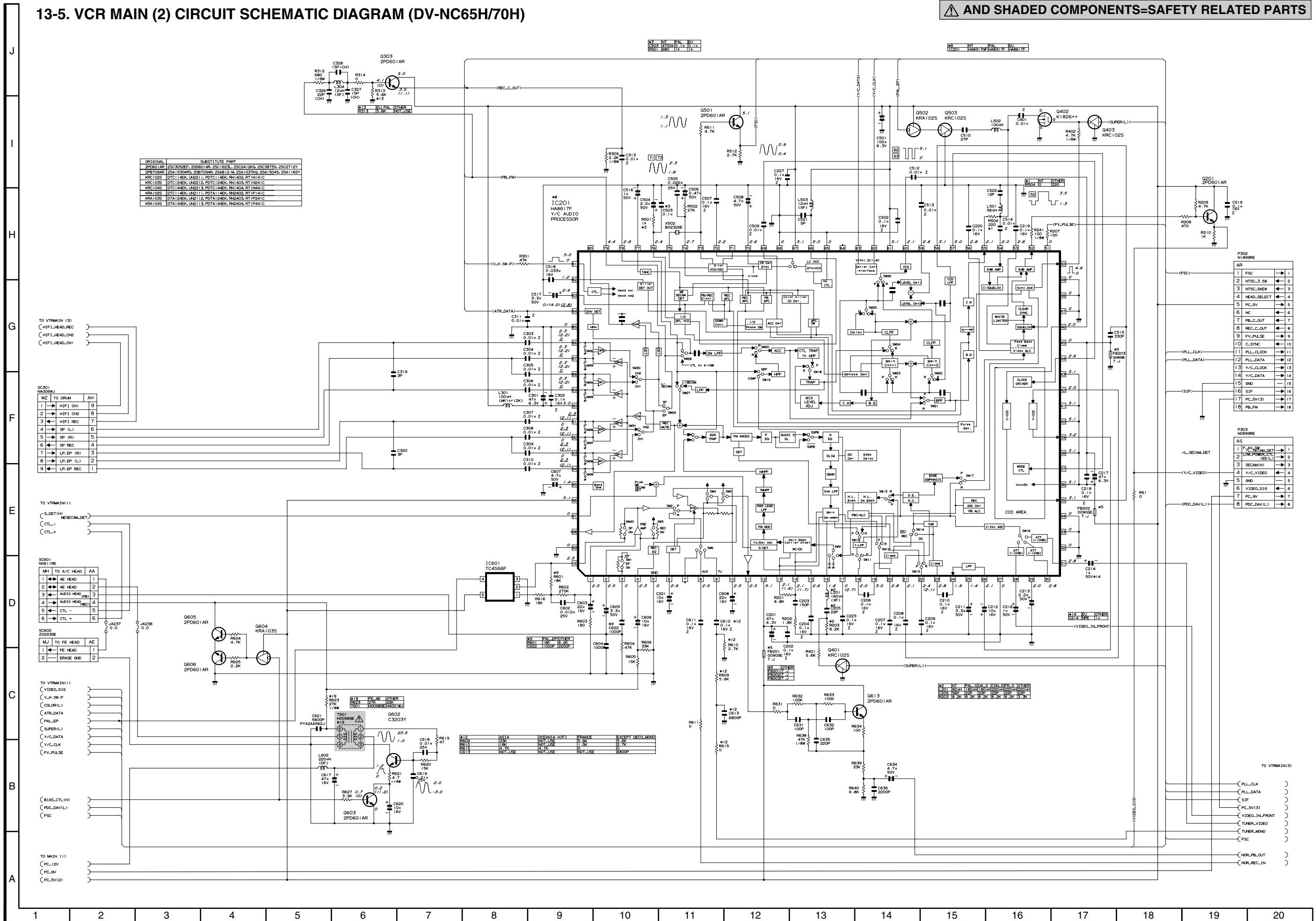


13-4. VCR MAIN (1) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65S)



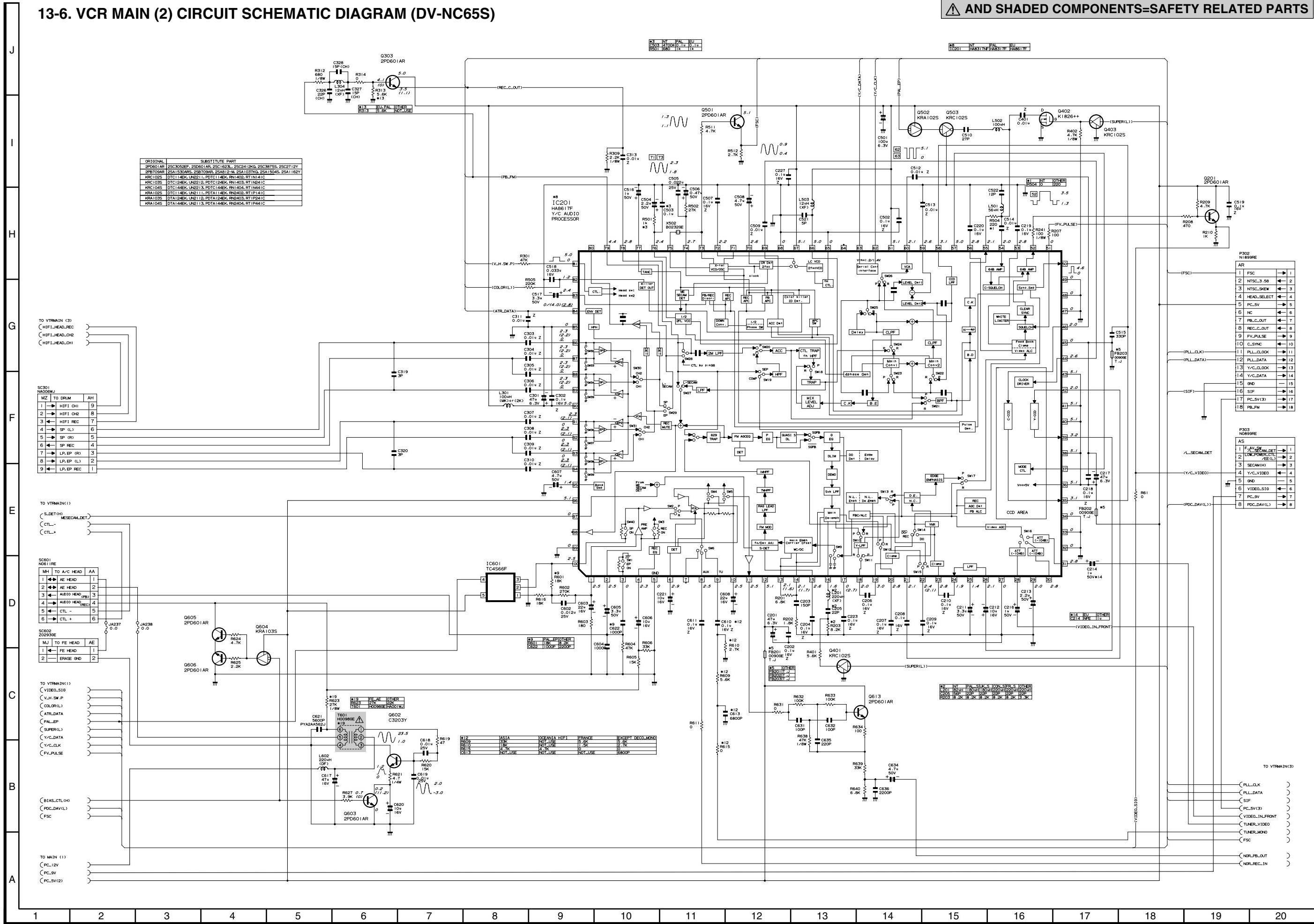
13-5. VCR MAIN (2) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65H/70H)

! AND SHADED COMPONENTS=SAFETY RELATED PARTS



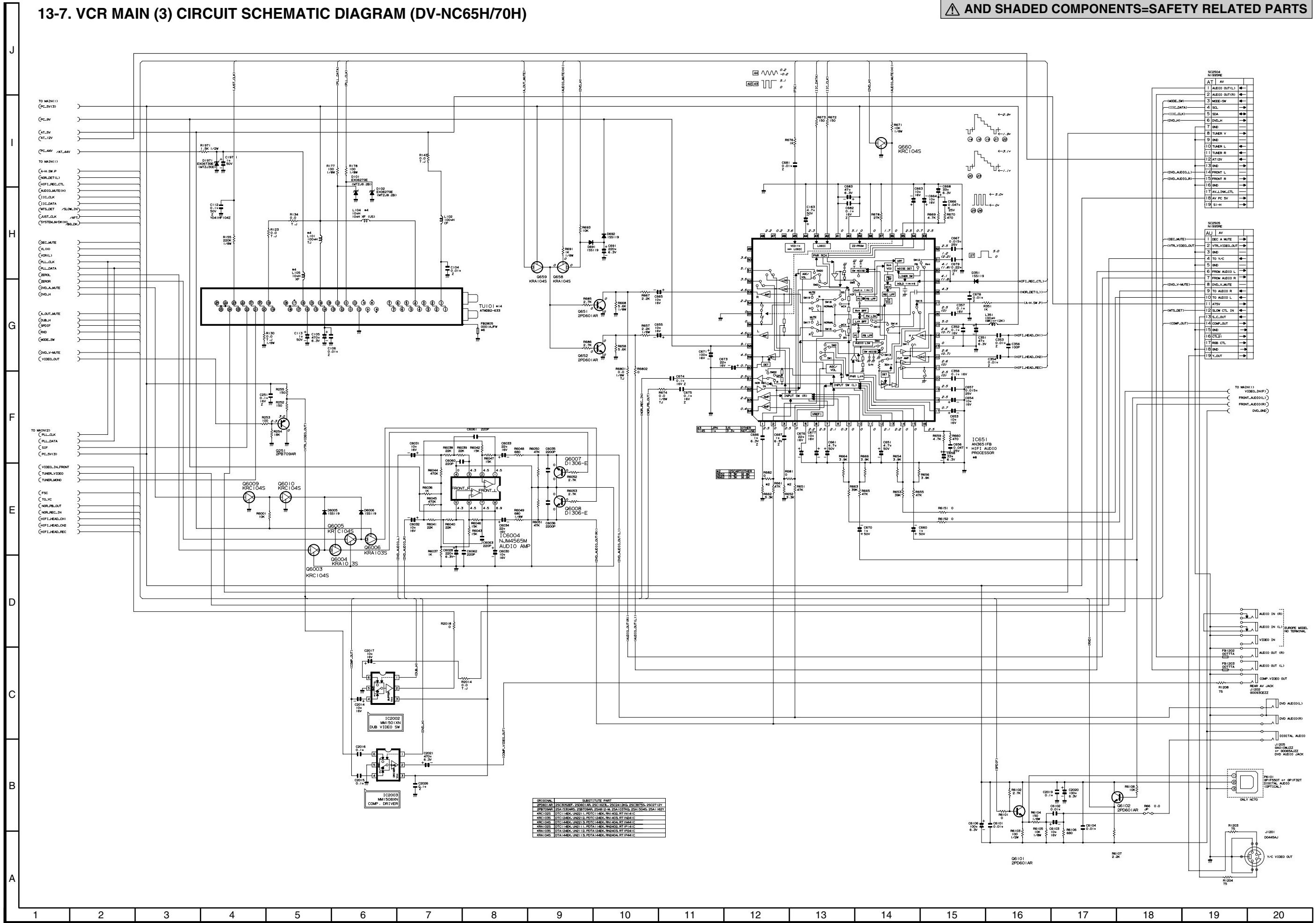
13-6. VCR MAIN (2) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65S)

! AND SHADED COMPONENTS=SAFETY RELATED PARTS

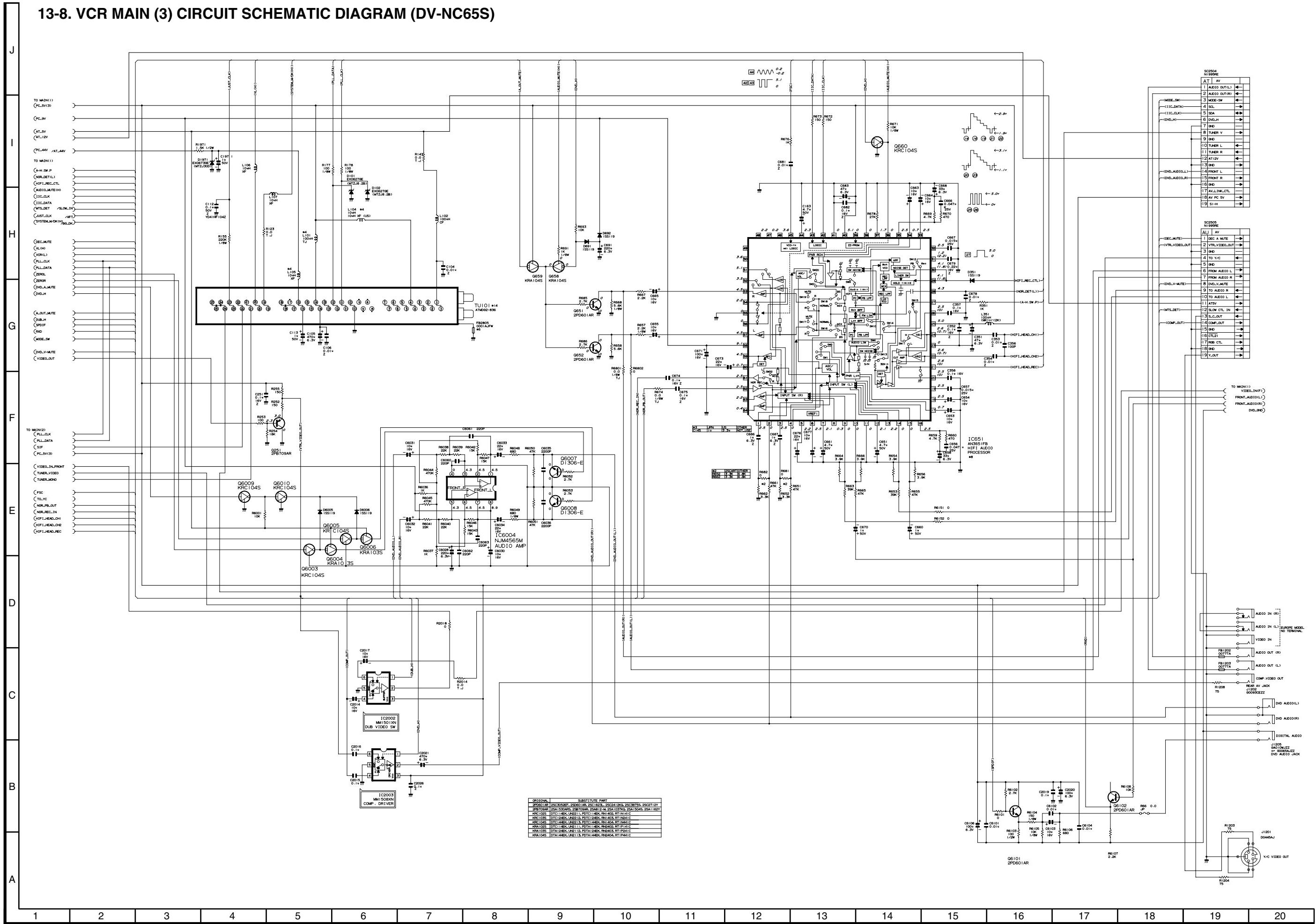


13-7. VCR MAIN (3) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65H/70H)

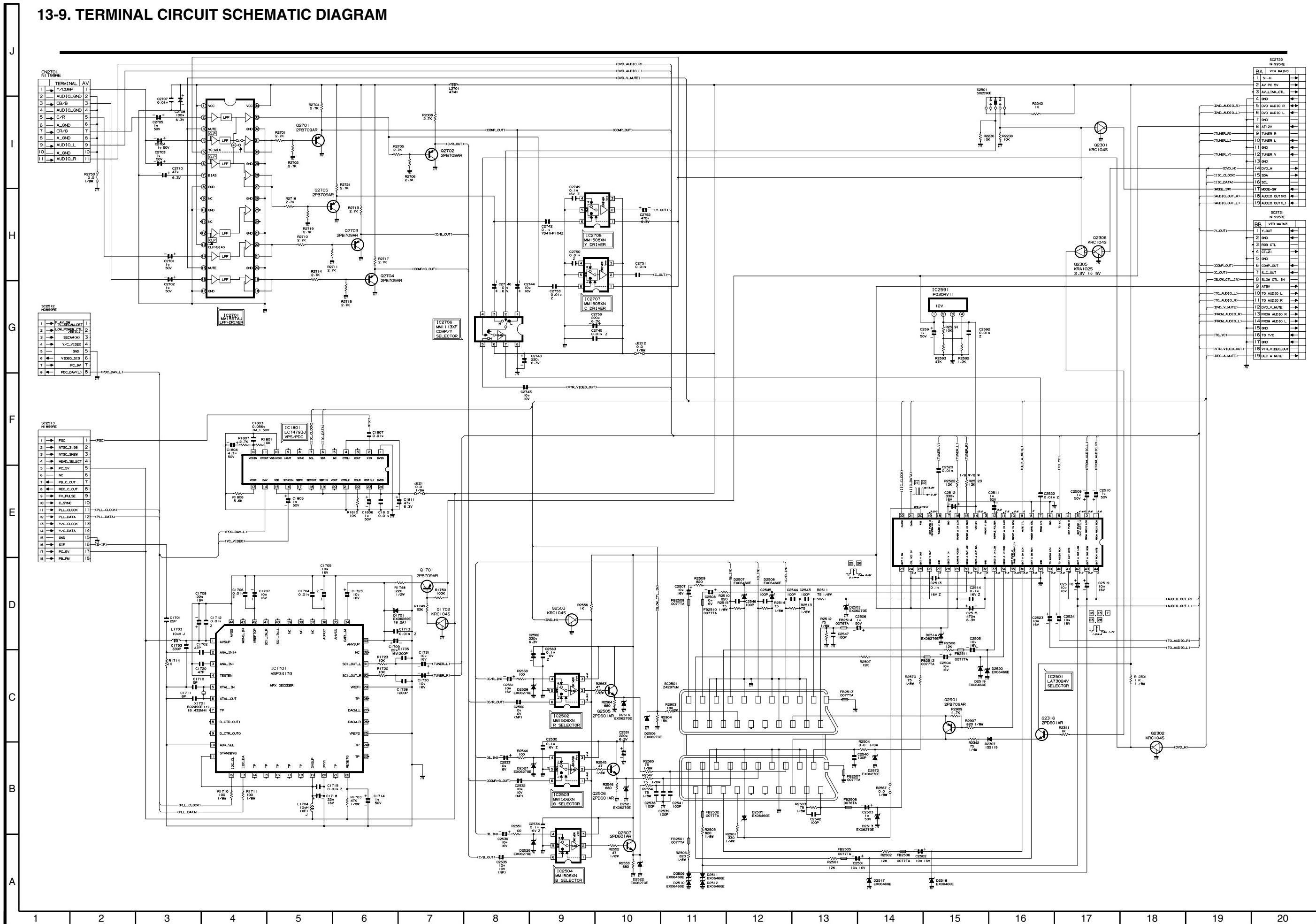
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



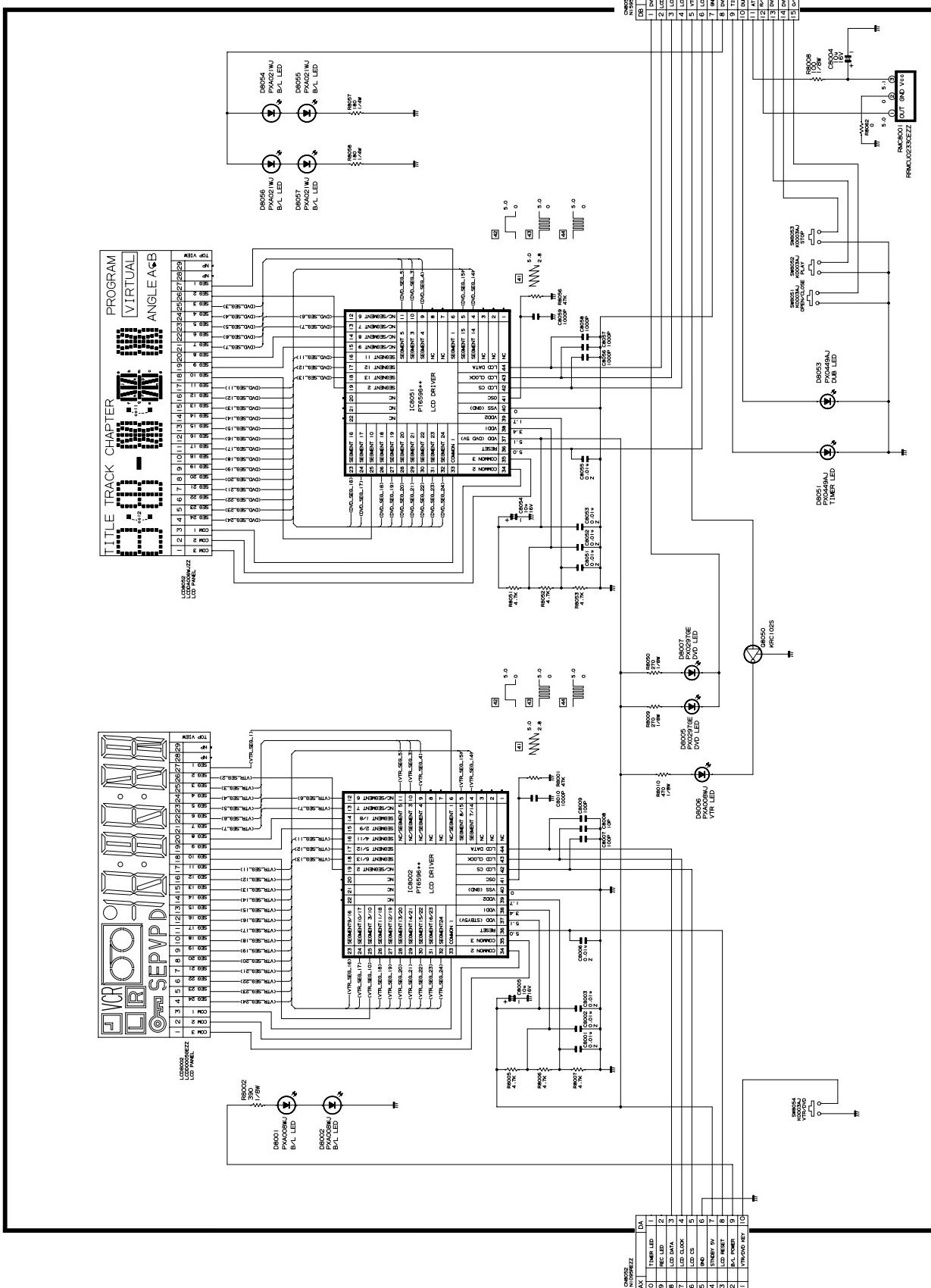
13-8. VCR MAIN (3) CIRCUIT SCHEMATIC DIAGRAM (DV-NC65S)



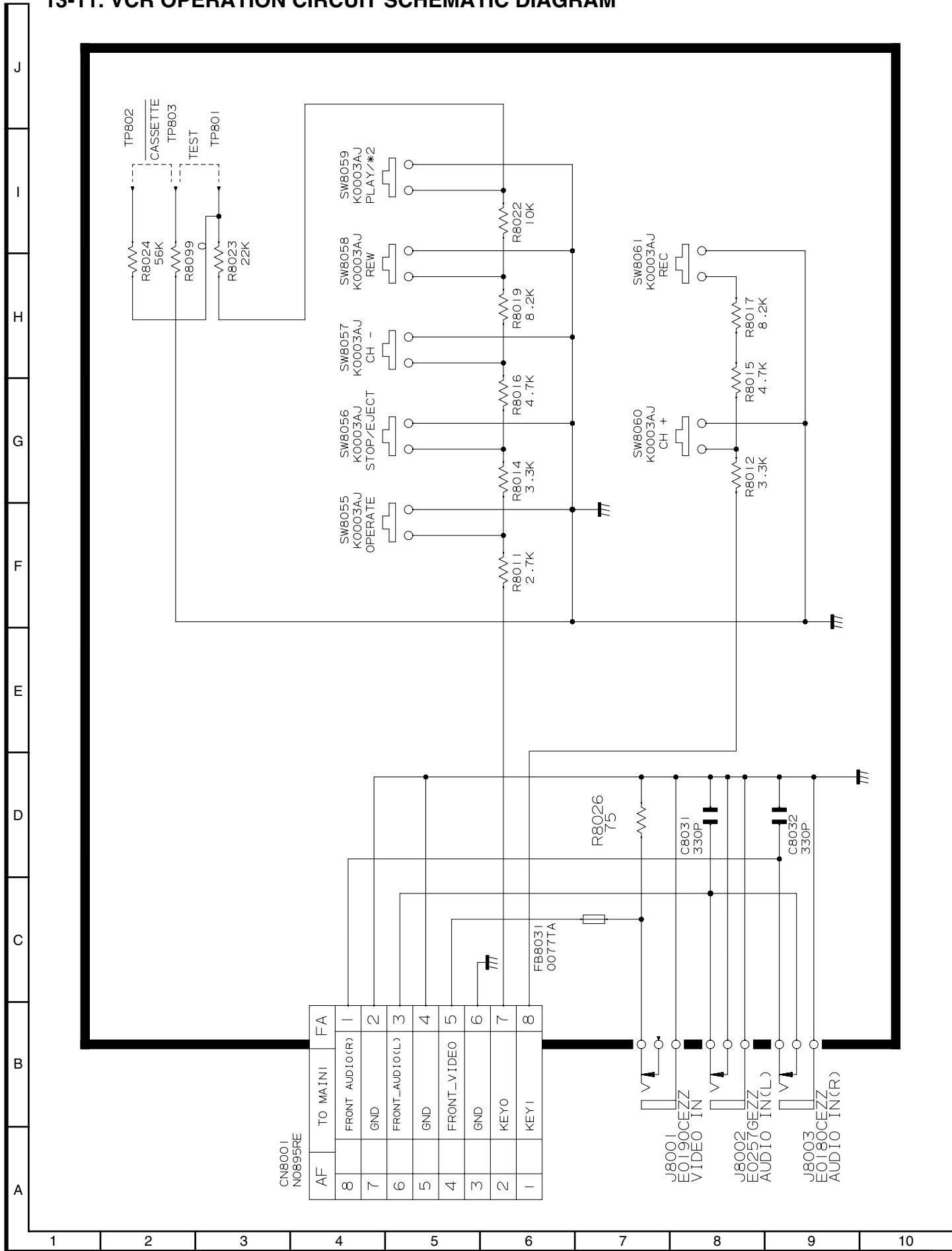
13-9. TERMINAL CIRCUIT SCHEMATIC DIAGRAM



13-10. DVD OPERATION CIRCUIT SCHEMATIC DIAGRAM

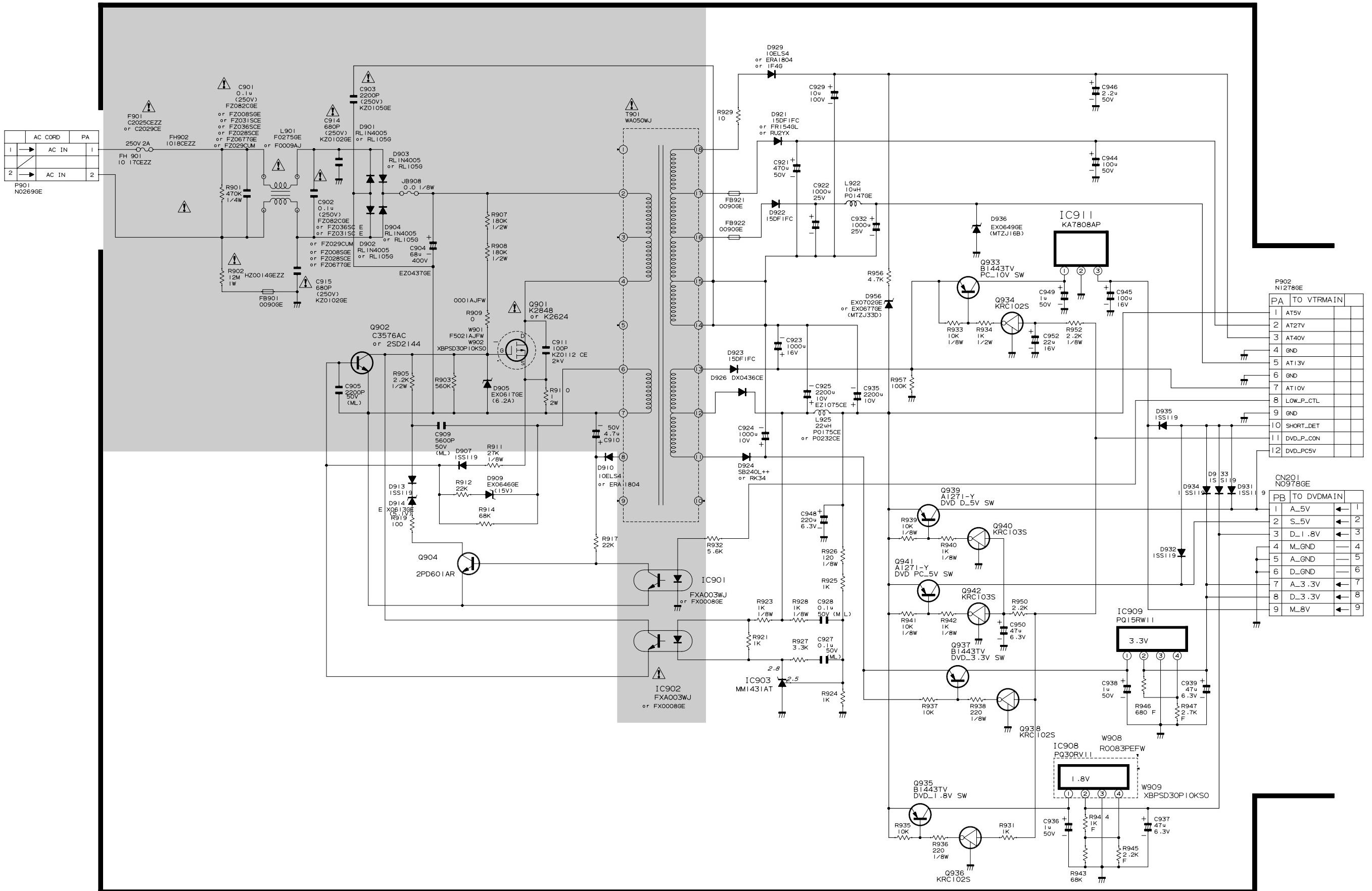


13-11. VCR OPERATION CIRCUIT SCHEMATIC DIAGRAM



13-12. POWER CIRCUIT SCHEMATIC DIAGRAM

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

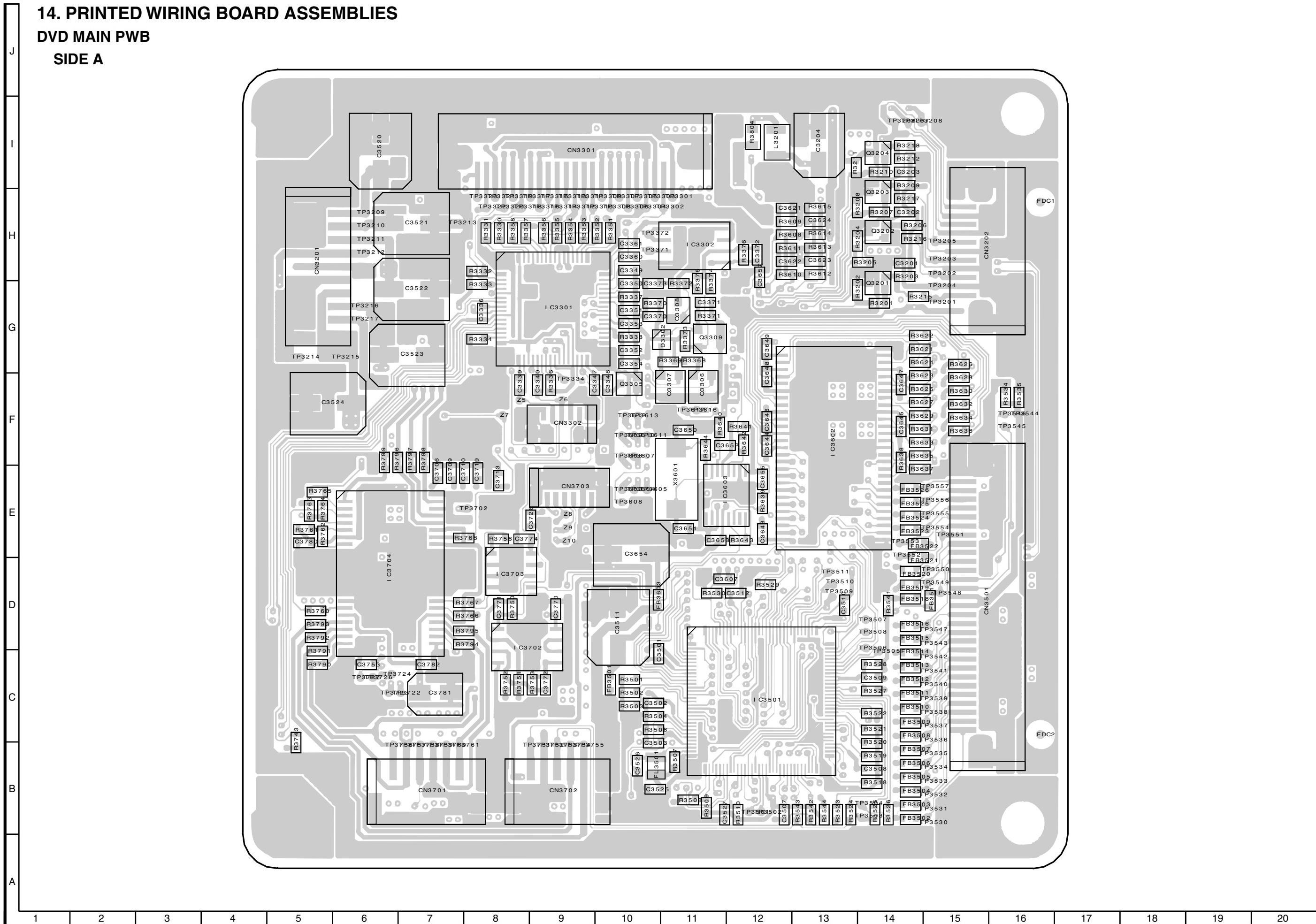


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

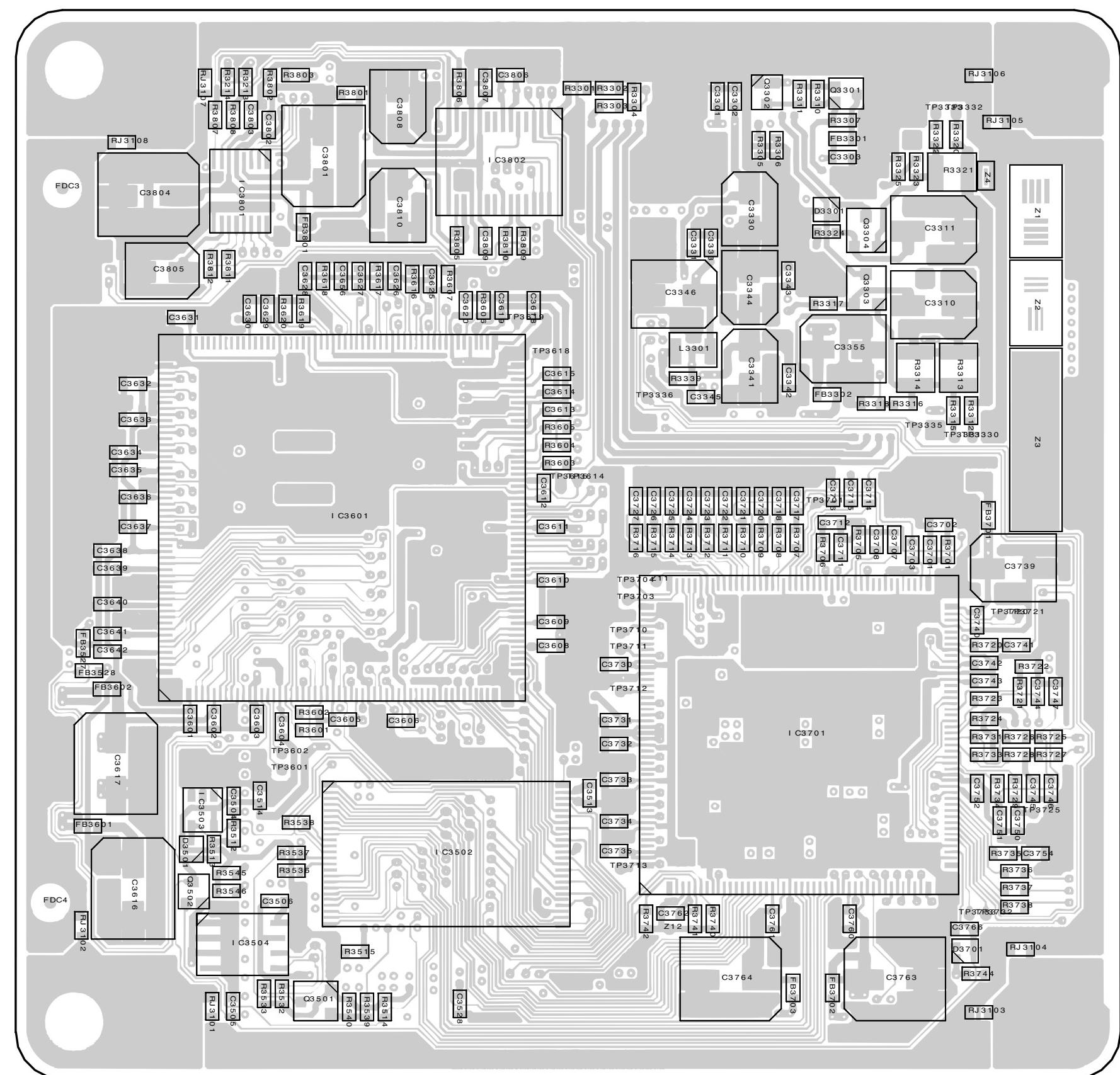
14. PRINTED WIRING BOARD ASSEMBLIES

DVD MAIN PWB

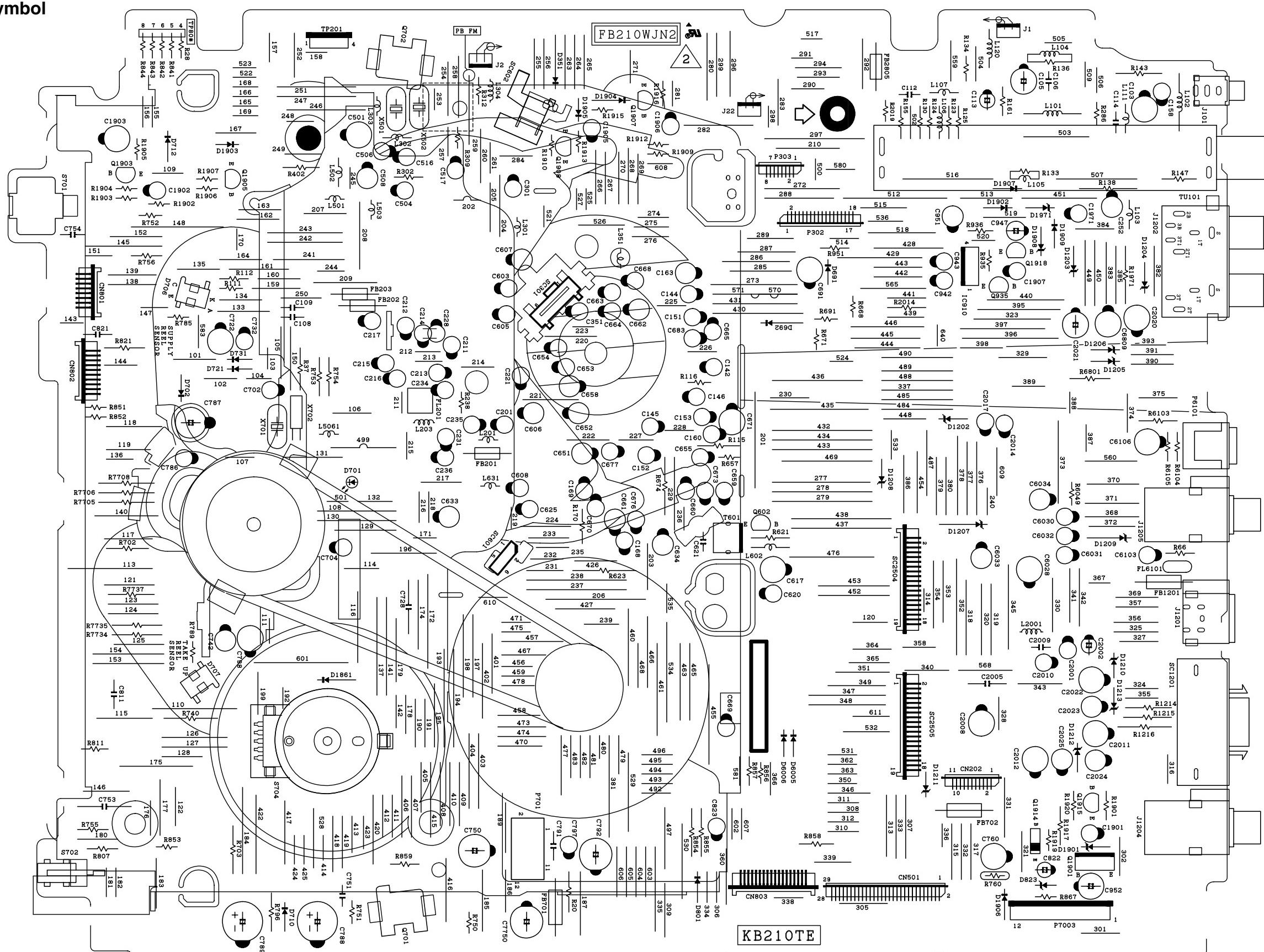
SIDE A



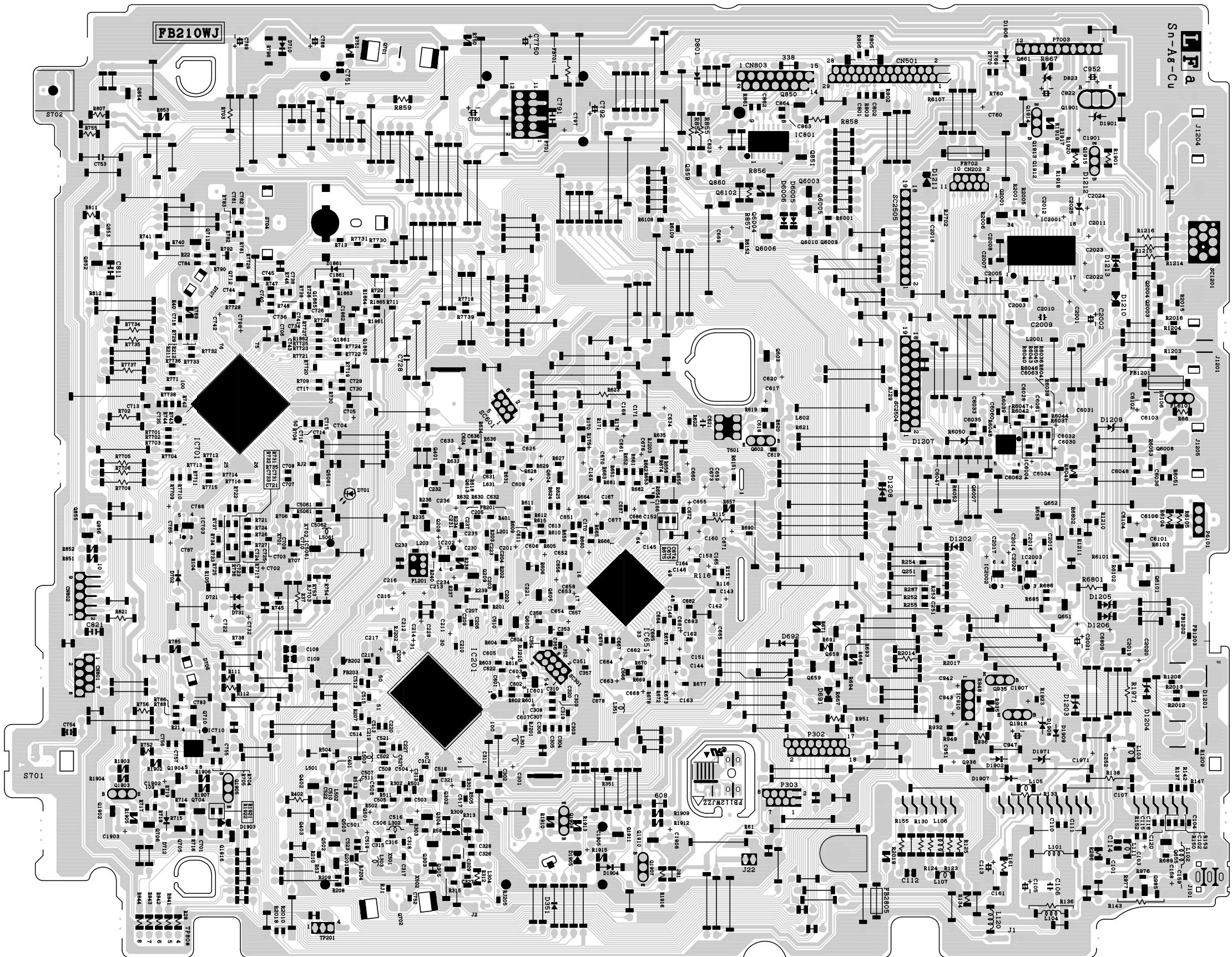
**DVD MAIN PWB
SIDE B**



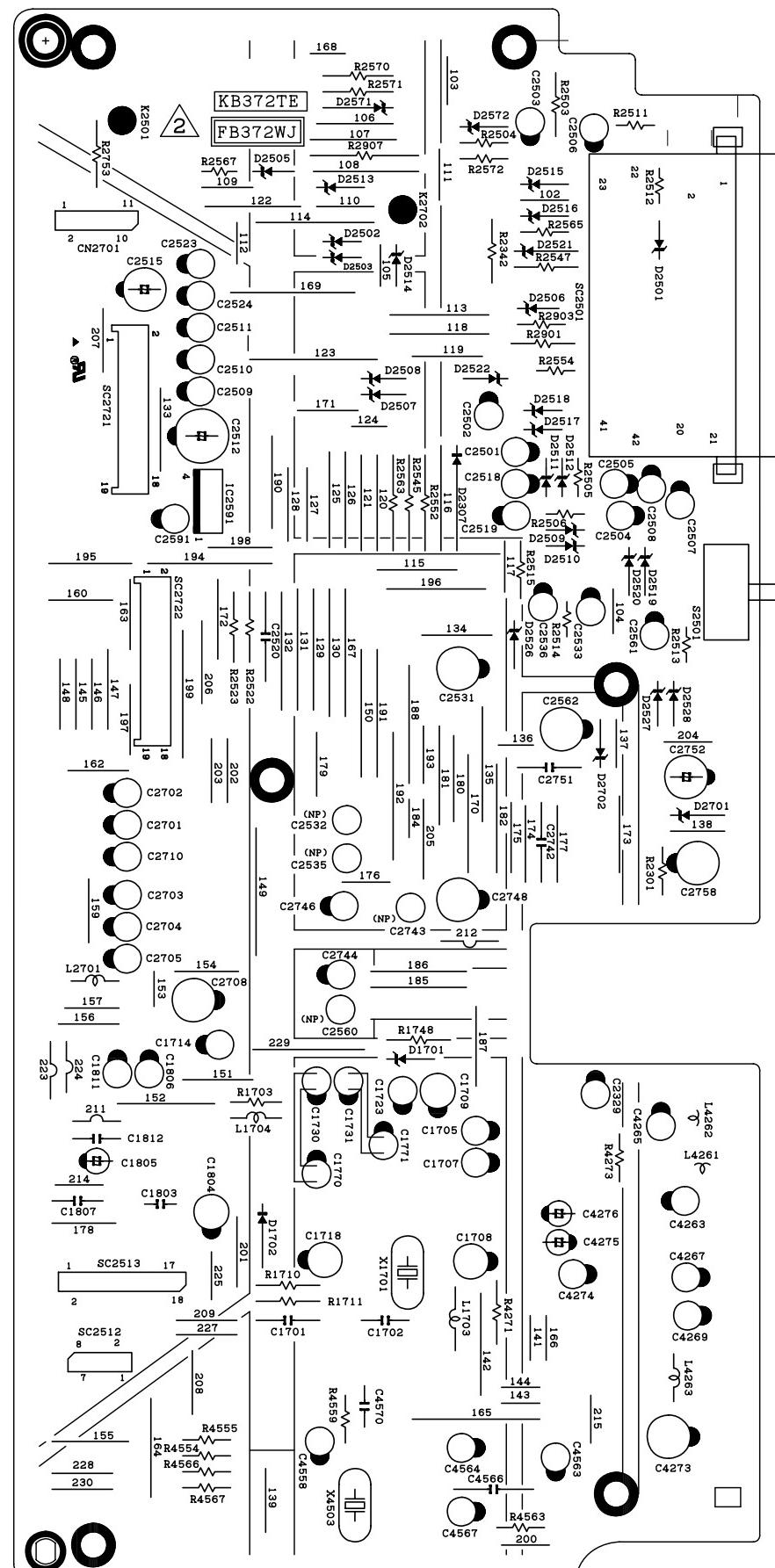
VCR MAIN PWB
SIDE A Symbol



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

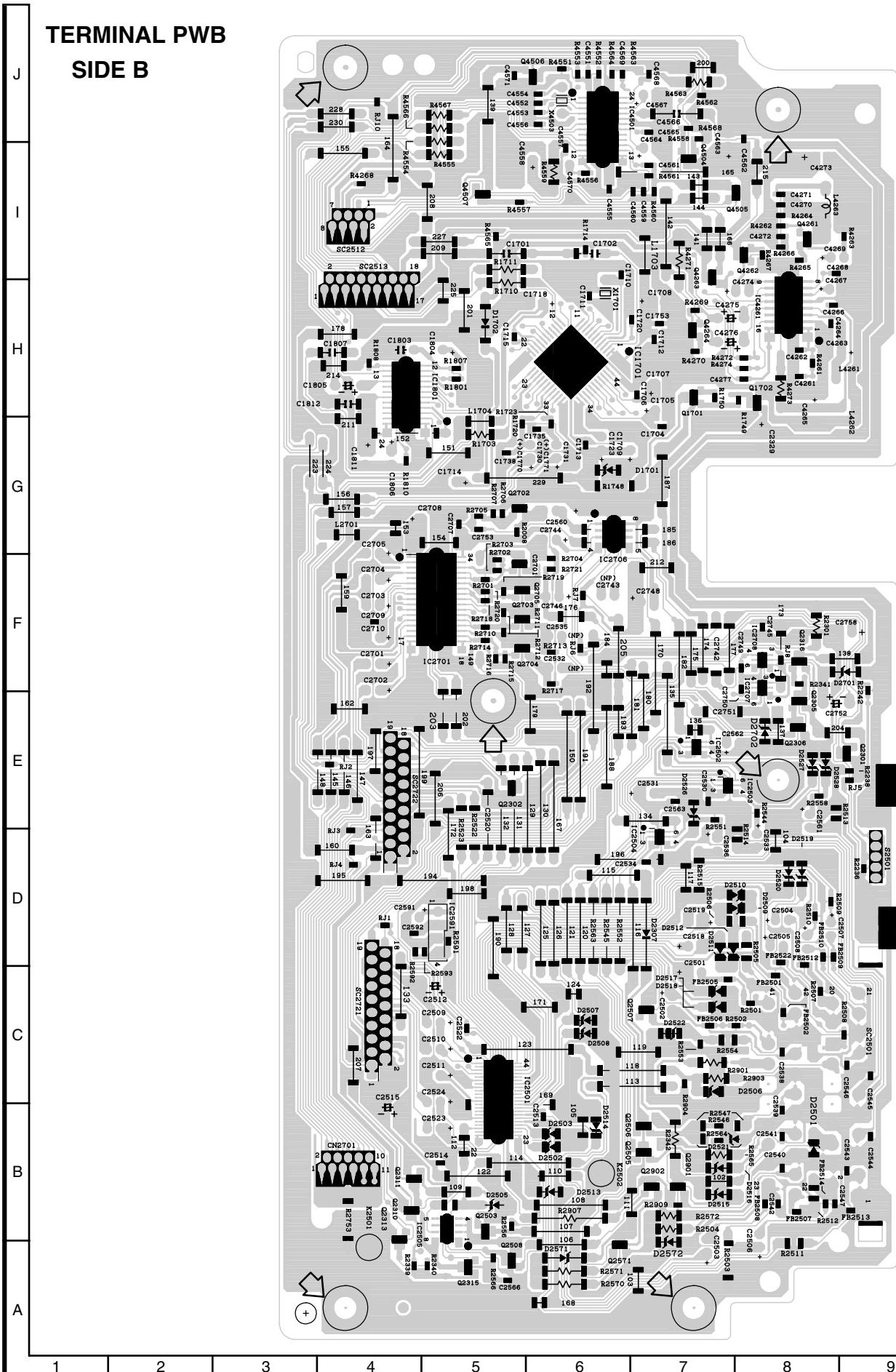
VCR MAIN PWB
SIDE B

TERMINAL PWB SIDE A Symbol



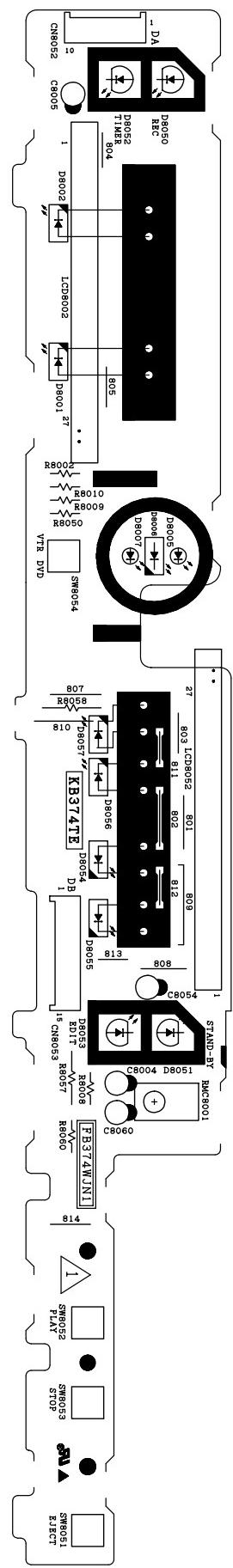
TERMINAL PWB

SIDE B

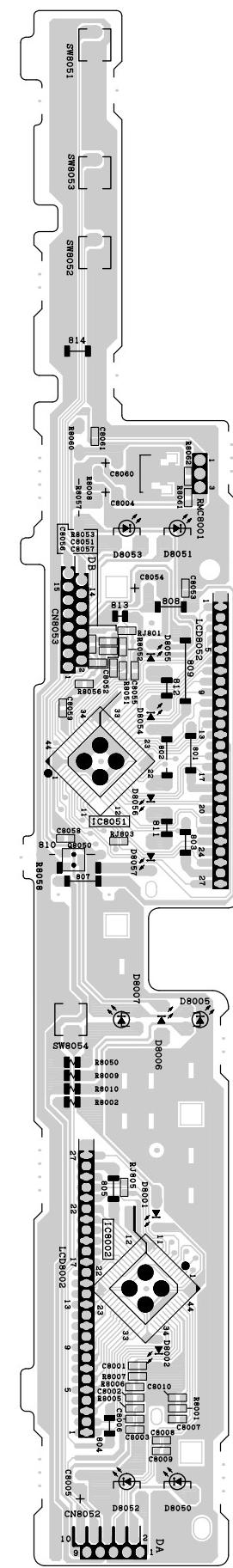


DVD OPERATION PWB

SIDE A Symbol



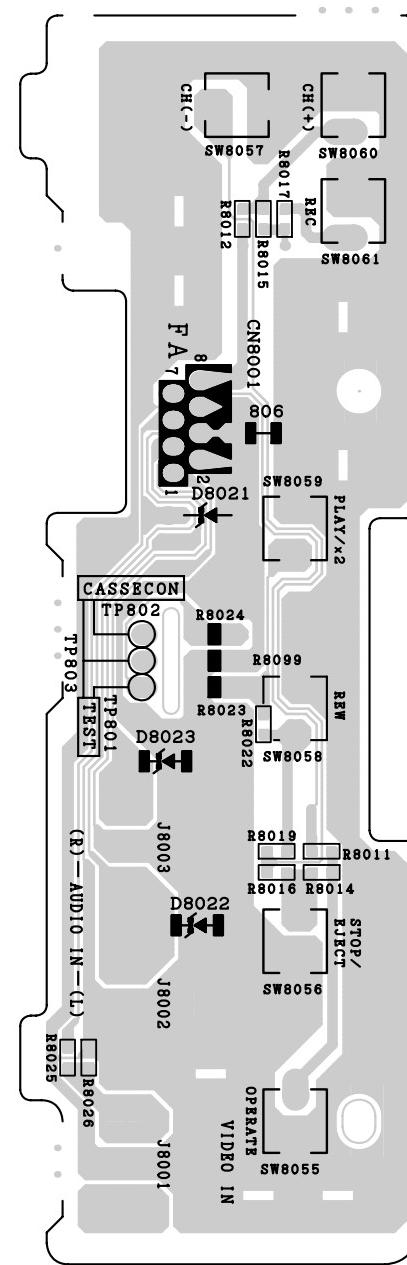
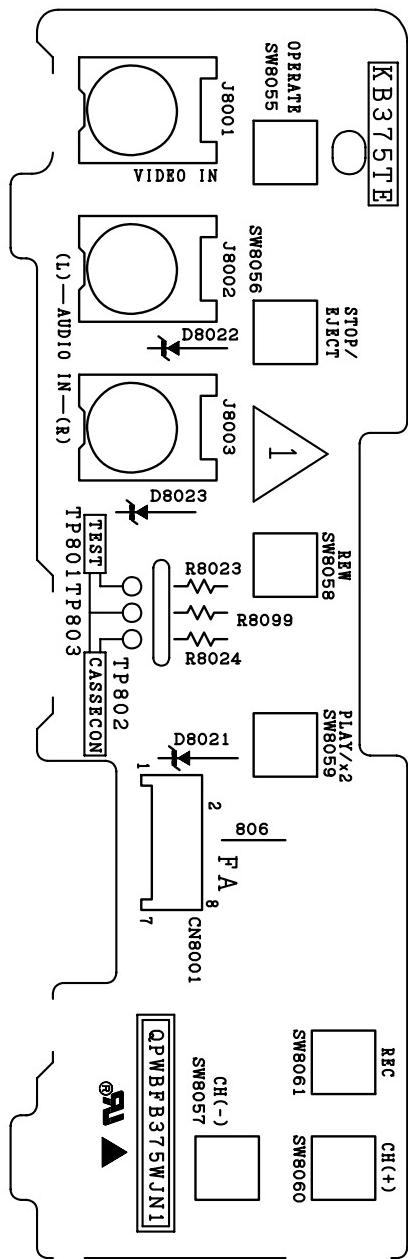
SIDE B



VCR OPERATION PWB

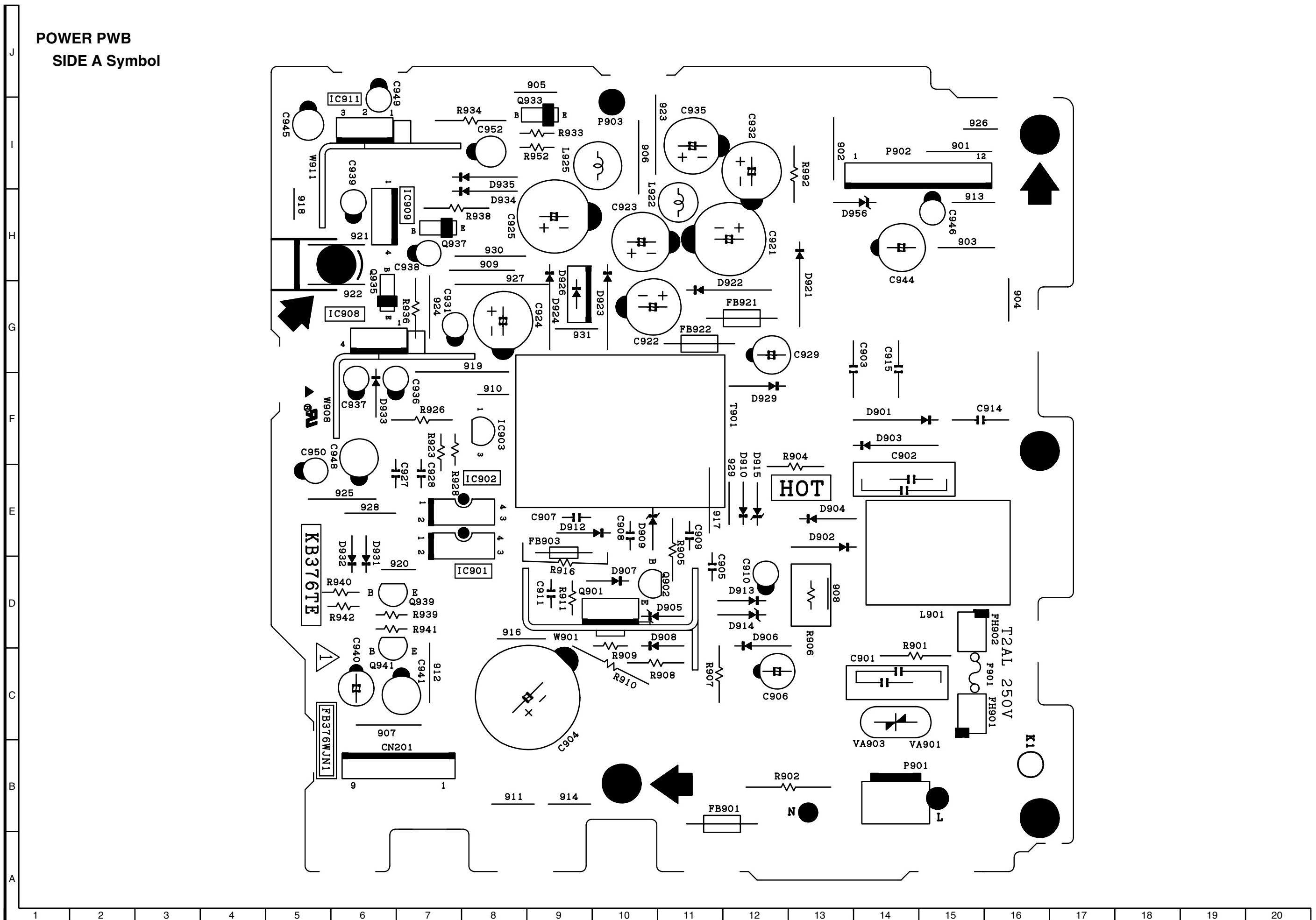
SIDE A Symbol

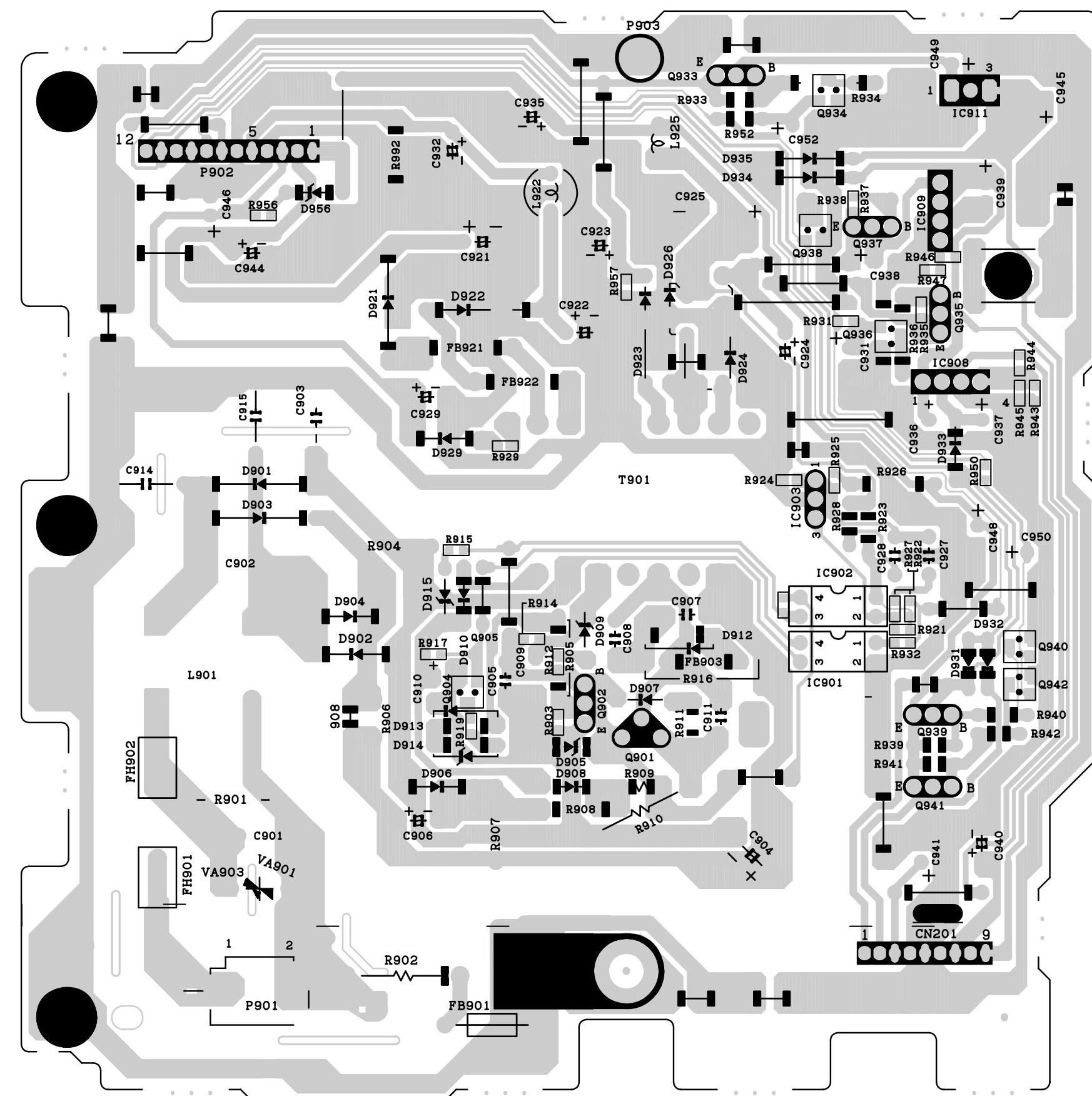
SIDE B



POWER PWB

SIDE A Symbol



POWER PWB
SIDE B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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15. REPLACEMENT PARTS LIST/ EXPLODED VIEWS

ELECTRICAL PARTS LIST

Parts marked with "▲" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION
5. PRICE CODE	

▲ MARK: SAFETY RELATED PARTS

PWB ASSEMBLY IS NOT REPLACEMENT ITEM

★MARK : SPARE PARTS-DELIVERY SECTION

"V" for Malaysia, "U" for SUKM

Ref. No.	Part No.	★	Description	Code
PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)				

DUNTKB209TE6H	— DVD Main PWB Unit	—
DUNTKB210TEV4	— VCR Main PWB Unit(NC70H)	—
DUNTKB210TEV5	— VCR Main PWB Unit(NC65H)	—
DUNTKB210TEV7	— VCR Main PWB Unit(NC65S)	—
DUNTKB372TEV1	— Terminal PWB Unit	—
DUNTKB374TEV1	— DVD Operation PWB Unit	—
DUNTKB375TEV1	— VCR Operation PWB Unit	—
DUNTKB376TEV1	— Power PWB Unit	—
DUNTKB233TEV1	— Sled Motor PWB Unit	—

**DUNTKB209TE6H
DVD MAIN PWB UNIT**

INTEGRATED CIRCUITS

IC3301	VHiAN8703FH-1Q	V AN8703FH, Front End Processor	AU
IC3501	RH-iXA171WJZZQ	V IXA171WJ, CPU	AX
IC3502	RH-iXA173WJZZQ	V IXA173WJ, 16Mbit Flash	AZ
IC3503	VHIBD4730G+1Y	V BD4730G+, Reset	AE
IC3504	VHiBR24C04F-1Y	V BR24C04F, E²PROM	AG
IC3601	VHiMN677531-1Q	V MN677531, AV DEC	BL
IC3602	RH-iX1779GEZZQ	V IX1779GE, 64Mbit SDRAM	BB
IC3603	VHiBU2286FV-1Y	V BU2286FV, Clock Gen.	AP
IC3701	VHiMN103S26-1Q	V MN103S26, SODC	BE
IC3702	VHiNMJ12904-1Y	V NJM12904	AE
IC3703	VHiTC4W53F-1Y	V TC4W53F	AF
IC3704	VHiAN8785SB-1Y	V AN8785SB, Motor Driver	AL
IC3802	VHiPCM1737E-1Y	V PCM1737E, Audio DAC	AN

TRANSISTORS

Q3201	VS2SA1576A+-1Y	V 2SA1576A+	AB
Q3202	VS2SA1576A+-1Y	V 2SA1576A+	AB
Q3203	VS2SA1576A+-1Y	V 2SA1576A+	AB
Q3204	VS2SA1576A+-1Y	V 2SA1576A+	AB
Q3301	VS2SA1576A+-1Y	V 2SA1576A+, HFM SW	AB
Q3302	VSDTC144EUA-1Y	V DTC144EUA	AB
Q3303	VS2SA1298Y/-1Y	V 2SA1298Y, CD Laser Driver	AB
Q3304	VS2SA1298Y/-1Y	V 2SA1298Y, DVD Laser Driver	AB
Q3305	VSDTC144EUA-1Y	V DTC144EUA, Filter SW	AB
Q3501	VS2SB1197K/-1Y	V 2SB1197K, VPP_CTL	AC

Ref. No.	Part No.	★	Description	Code
Q3502	VSDTC124EUA-1Y	V	DTC124EUA	AB
DIODES				
D3301	VHDDAP222//1Y	V	DAP222	AA
D3501	VHDDAN222//1Y	V	DAN222	AA
PACKAGED CIRCUIT				
X3601	RCRSOA015WJZZY	V	Crystal, 36.864MHz	AH
COIL				
L3201	VP-NM470K2R0NY	V	Peaking, 47μH	AB
CAPACITORS				
C3201	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3203	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3204	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB
C3301	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3303	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3310	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB
C3311	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB
C3330	VCEAPF0JW226MY	V 22	6.3V Electrolytic	AB
C3331	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3333	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3336	VCCCCY1HH101JY	V 100p	50V Ceramic	AA
C3341	VCEAPF0JW226MY	V 22	6.3V Electrolytic	AB
C3342	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3343	VCKYCY1HB103KY	V 0.01	50V Ceramic	AA
C3344	VCEAPF0JW226MY	V 22	6.3V Electrolytic	AB
C3345	VCKYCY1HB103KY	V 0.01	50V Ceramic	AA
C3346	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB
C3347	VCKYCY1HB182KY	V 1800p	50V Ceramic	AA
C3348	VCKYCY1HB152KY	V 1500p	50V Ceramic	AA
C3349	VCKYCY1CB473KY	V 0.047	16V Ceramic	AA
C3350	VCKYCY1CB273KY	V 0.027	16V Ceramic	AB
C3351	VCKYCY1HB561KY	V 560p	50V Ceramic	AA
C3352	VCKYCY1HB561KY	V 560p	50V Ceramic	AA
C3353	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3354	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3355	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB
C3360	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3361	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3501	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3502	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3503	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3504	VCCCCY1HH101JY	V 100p	50V Ceramic	AA
C3506	VCKYCY1HB103KY	V 0.01	50V Ceramic	AA
C3507	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3508	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3509	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3510	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3511	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3512	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3513	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3514	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3521	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3522	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3523	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3524	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3525	VCCCCY1HH270JY	V 27p	50V Ceramic	AA
C3526	VCCCCY1HH270JY	V 27p	50V Ceramic	AA
C3527	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3528	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3601	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3602	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3603	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3604	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3605	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3606	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3607	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3608	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3609	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3610	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3611	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3612	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
DUNTKB209TE6H DVD MAIN PWB UNIT(Continued)				
C3613	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3614	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3615	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3616	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3617	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3618	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3619	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3620	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3621	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3622	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3623	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3624	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3625	VCKYCY0JF105ZY	V 1	6.3V Ceramic	AB
C3626	VCKYCY0JF105ZY	V 1	6.3V Ceramic	AB
C3627	VCKYCY0JF105ZY	V 1	6.3V Ceramic	AB
C3628	VCKYCY0JF105ZY	V 1	6.3V Ceramic	AB
C3629	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3630	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3631	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3632	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3633	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3634	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3635	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3636	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3637	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3638	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3639	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3640	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3641	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3642	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3643	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3644	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3645	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3647	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3648	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3650	VCCCCY1HH9R0DY	V 9p	50V Ceramic	AA
C3651	VCCCCY1HH9R0DY	V 9p	50V Ceramic	AA
C3652	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3653	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3654	VCEAPF0JW107MY	V 100	6.3V Electrolytic	AC
C3655	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3656	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3657	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3701	VCKYCY1HB103KY	V 0.01	50V Ceramic	AA
C3702	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3703	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3706	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3707	VCKYCY1CB333KY	V 0.033	16V Ceramic	AA
C3708	VCCCCY1HH680JY	V 68p	50V Ceramic	AA
C3709	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3710	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3711	VCKYCY1HB681KY	V 680p	50V Ceramic	AA
C3712	VCKYCY1HB682KY	V 6800p	50V Ceramic	AA
C3714	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3715	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3716	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3717	VCKYCY1HB821KY	V 820p	50V Ceramic	AA
C3718	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3719	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3720	VCKYCY1HB331KY	V 330p	50V Ceramic	AA
C3721	VCKYCY1HB331KY	V 330p	50V Ceramic	AA
C3722	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3723	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3724	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3725	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3726	VCKYCY1HB102KY	V 1000p	50V Ceramic	AA
C3728	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3730	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3731	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3732	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3735	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3739	VCEAPF0JW476MY	V 47	6.3V Electrolytic	AB

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RESISTORS				
C3741	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3742	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3743	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3744	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3745	VCKYCY1CB393KY	V 0.039	16V Ceramic	AA
C3746	VCKYCY1HB103KY	V 0.01	50V Ceramic	AA
C3747	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3751	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3752	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3753	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3760	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3761	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3762	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3763	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3764	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3766	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3770	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3780	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3781	VCEAPF1CW106MY	V 10	16V Electrolytic	AB
C3782	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3801	VCEAPF0JW107MY	V 100	6.3V Electrolytic	AC
C3804	RC-EZ0475GEZZY	V 220	6.3V Electrolytic	AD
C3806	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3807	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3808	VCEAPF1CW106MY	V 10	16V Electrolytic	AB
C3809	VCKYCY1CB104KY	V 0.1	16V Ceramic	AB
C3810	VCEAPF1CW106MY	V 10	16V Electrolytic	AB
FL3501	RCRMCA003WJZZY	V	Ceramic Vibrator	AE
R3201	VRS-CY1JF330JY	V 33	1/16W Metal Oxide	AA
R3202	VRS-CY1JF680FY	V 68	1/16W Metal Oxide	AA
R3203	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3204	VRS-CY1JF750FY	V 75	1/16W Metal Oxide	AA
R3205	VRS-CY1JF330JY	V 33	1/16W Metal Oxide	AA
R3206	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3207	VRS-CY1JF330JY	V 33	1/16W Metal Oxide	AA
R3208	VRS-CY1JF680FY	V 68	1/16W Metal Oxide	AA
R3209	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3210	VRS-CY1JF330JY	V 33	1/16W Metal Oxide	AA
R3211	VRS-CY1JF750FY	V 75	1/16W Metal Oxide	AA
R3212	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3213	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3214	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3215	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3216	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3217	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3218	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3301	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3302	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3303	VRS-CY1JF822JY	V 8.2k	1/16W Metal Oxide	AA
R3304	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3305	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3306	VRS-CY1JF100JY	V 10	1/16W Metal Oxide	AA
R3310	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA
R3311	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA
R3312	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3313	VRS-TW2ED470JY	V 47	1/4W Metal Oxide	AA
R3314	VRS-TW2ED470JY	V 47	1/4W Metal Oxide	AA
R3315	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3316	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R3317	VRS-CY1JF471JY	V 470	1/16W Metal Oxide	AA
R3318	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R3320	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3321	VRS-TW2ED330JY	V 33	1/4W Metal Oxide	AA
R3322	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3323	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R3324	VRS-CY1JF471JY	V 470	1/16W Metal Oxide	AA
R3325	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R3330	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3331	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3332	VRS-CY1JF335JY	V 3.3M	1/16W Metal Oxide	AA
R3333	VRS-CY1JF335JY	V 3.3M	1/16W Metal Oxide	AA
R3334	VRS-CY1JF223JY	V 22k	1/16W Metal Oxide	AA
R3336	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKB209TE6H DVD MAIN PWB UNIT(Continued)									
R3337	VRS-CY1JF105JY	V 1M	1/16W Metal Oxide	AA	R3627	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3338	VRS-CY1JF105JY	V 1M	1/16W Metal Oxide	AA	R3628	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3339	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3629	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3351	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3630	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3352	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3631	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3353	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3632	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3354	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3633	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3355	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3634	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3356	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3635	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3357	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3636	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA
R3358	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3637	VRS-CY1JF220JY	V 22	1/16W Metal Oxide	AA
R3501	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3638	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R3502	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3640	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3503	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3641	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3504	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3643	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3506	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3644	VRS-CY1JF221JY	V 220	1/16W Metal Oxide	AA
R3507	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3701	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3508	VRS-CY1JF560JY	V 56	1/16W Metal Oxide	AA	R3705	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3509	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3706	VRS-CY1JF105JY	V 1M	1/16W Metal Oxide	AA
R3510	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3707	VRS-CY1JF822JY	V 8.2k	1/16W Metal Oxide	AA
R3512	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3708	VRS-CY1JF822JY	V 8.2k	1/16W Metal Oxide	AA
R3514	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3709	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3515	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3710	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3518	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3711	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3519	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3712	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3520	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3713	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3521	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3714	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3522	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3715	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3523	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3716	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3524	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3720	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3527	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3721	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3528	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3722	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R3529	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3723	VRS-CY1JF682JY	V 6.8k	1/16W Metal Oxide	AA
R3530	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3724	VRS-CY1JF682JY	V 6.8k	1/16W Metal Oxide	AA
R3532	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA	R3725	VRS-CY1JF273JY	V 27k	1/16W Metal Oxide	AA
R3533	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA	R3726	VRS-CY1JF273JY	V 27k	1/16W Metal Oxide	AA
R3536	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3727	VRS-CY1JF273JY	V 27k	1/16W Metal Oxide	AA
R3537	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3728	VRS-CY1JF273JY	V 27k	1/16W Metal Oxide	AA
R3539	VRS-CY1JF222JY	V 2.2k	1/16W Metal Oxide	AA	R3731	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA
R3540	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA	R3733	VRS-CY1JF472JY	V 4.7k	1/16W Metal Oxide	AA
R3541	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3734	VRS-CY1JF183JY	V 18k	1/16W Metal Oxide	AA
R3542	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3736	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R3543	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3737	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R3544	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3738	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R3545	VRS-CY1JF332JY	V 3.3k	1/16W Metal Oxide	AA	R3740	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R3546	VRS-CY1JF332JY	V 3.3k	1/16W Metal Oxide	AA	R3741	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3601	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA	R3742	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3602	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA	R3743	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R3603	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA	R3744	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R3604	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA	R3750	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3605	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA	R3751	VRS-CY1JF823JY	V 82k	1/16W Metal Oxide	AA
R3606	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA	R3752	VRS-CY1JF823JY	V 82k	1/16W Metal Oxide	AA
R3607	VRS-CY1JF153FY	V 15k	1/16W Metal Oxide	AA	R3753	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3608	VRS-CY1JF152FY	V 1.5k	1/16W Metal Oxide	AA	R3756	VRS-CY1JF273JY	V 27k	1/16W Metal Oxide	AA
R3609	VRS-CY1JF102FY	V 1k	1/16W Metal Oxide	AA	R3760	VRS-CY1JF183JY	V 18k	1/16W Metal Oxide	AA
R3610	VRS-CY1JF152FY	V 1.5k	1/16W Metal Oxide	AA	R3761	VRS-CY1JF104JY	V 100k	1/16W Metal Oxide	AA
R3611	VRS-CY1JF102FY	V 1k	1/16W Metal Oxide	AA	R3762	VRS-CY1JF104JY	V 100k	1/16W Metal Oxide	AA
R3612	VRS-CY1JF152FY	V 1.5k	1/16W Metal Oxide	AA	R3763	VRS-CY1JF823JY	V 82k	1/16W Metal Oxide	AA
R3613	VRS-CY1JF102FY	V 1k	1/16W Metal Oxide	AA	R3764	VRS-CY1JF104JY	V 100k	1/16W Metal Oxide	AA
R3614	VRS-CY1JF152FY	V 1.5k	1/16W Metal Oxide	AA	R3765	VRS-CY1JF393JY	V 39k	1/16W Metal Oxide	AA
R3615	VRS-CY1JF102FY	V 1k	1/16W Metal Oxide	AA	R3766	VRS-CY1JF183JY	V 18k	1/16W Metal Oxide	AA
R3616	VRS-CY1JF153FY	V 15k	1/16W Metal Oxide	AA	R3767	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3617	VRS-CY1JF153FY	V 15k	1/16W Metal Oxide	AA	R3768	VRS-CY1JF153JY	V 15k	1/16W Metal Oxide	AA
R3618	VRS-CY1JF682FY	V 6.8k	1/16W Metal Oxide	AA	R3801	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3619	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3802	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3620	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA	R3803	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R3621	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA	R3804	VRS-TV1JD470JY	V 47	1/16W Metal Oxide	AA
R3622	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA					
R3623	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA					
R3624	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA					
R3625	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA					
R3626	VRS-CY1JF820JY	V 82	1/16W Metal Oxide	AA					

BALUNES

FB3301	RBLN-0077TAZZY	V Balun, BLN-0077TA	AB
FB3302	RBLN-0061TAZZY	V Balun, BLN-0061TA	AD
FB3501	RBLN-0061TAZZY	V Balun, BLN-0061TA	AD
FB3502	RBLN-0077TAZZY	V Balun, BLN-0077TA	AB
FB3503	RBLN-0077TAZZY	V Balun, BLN-0077TA	AB
FB3504	RBLN-0077TAZZY	V Balun, BLN-0077TA	AB

Ref. No.	Part No.	★	Description	Code
DUNTKB209TE6H DVD MAIN PWB UNIT(Continued)				

FB3505	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3507	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3508	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3509	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3510	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3511	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3512	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3513	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3514	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3515	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3516	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3517	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3518	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3520	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3521	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3522	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3523	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3524	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB3601	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3602	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3603	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3604	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3701	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3702	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3703	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3801	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
FB3802	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3639	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3642	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3805	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3806	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3809	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3810	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD
R3813	RBLN-0061TAZZY	V	Balun, BLN-0061TA	AD

MISCELLANEOUS PARTS

CN3201	QPLGN0964TAZZY	V	Plug, 9Pin	AF
CN3202	QSOCN1136TAZZY	V	Socket, 11Pin	AE
CN3301	QSOCN2336TAZZY	V	Socket, 23Pin	AF
CN3501	QSOCN2936TAZZY	V	Socket, 29Pin	AF
CN3701	QPLGN0664TAZZY	V	Plug, 6Pin	AD
CN3702	QPLGN0564TAZZY	V	Plug, 5Pin	AC

DUNTKB210TEV4(NC70H) DUNTKB210TEV5(NC65H) DUNTKB210TEV7(NC65S)

VCR MAIN PWB UNIT

TUNER

TU101	VTUATMDB2-633	V	VHF Tuner(NC65H/NC70H)	BD
TU101	VTUATMDG2-836	V	VHF Tuner(NC65S)	BE

INTEGRATED CIRCUITS

IC201	VHiHA8617F/-1	V	HA8617F, Y/C Audio Processor	AX
IC601	VHiTC4S66F/-1Y	V	TC4S66F	AD
IC651	VHiAN3651FB-1	V	AN3651FB, Hifi Audio Processor	AU
IC701	RH-iXA213WJZZQ	V	IXA213WJ	
IC703	VHiPST3225N1EY	V	PST3225N	AD
IC710	VHiBR2416E2-1Y	V	BR2416E2, E ² PROM	AK
IC801	RH-iX1539CEZZY	V	IX1539CE	AE
IC2002	VHiMM1501XN-1Y	V	MM1501XN, Dub Video SW	AE
IC2003	VHiMM1508XN-1Y	V	MM1508XN, Comp. Driver	AE
IC6004	VHiNJM4565M-1Y	V	NJM4565M, Audio Amp	AE

TRANSISTORS

Q201	VS2PD601AR/-1Y	V	2PD601AR	AB
Q251	VS2PB709AR/-1Y	V	2PB709AR	AB
Q303	VS2PD601AR/-1Y	V	2PD601AR	AB

Ref. No.	Part No.	★	Description	Code
Q401	VSKRC102S//1Y	V	KRC102S	AA
Q402	VS2SK1826++-1Y	V	2SK1826++	AC
Q403	VSKRC102S//1Y	V	KRC102S	AA
Q501	VS2PD601AR/-1Y	V	2PD601AR	AB
Q502	VSKRA102S//1Y	V	KRA102S	AA
Q503	VSKRC102S//1Y	V	KRC102S	AA
Q602	VS2SC3203Y/-1+	V	2SC3203Y	AC
Q603	VS2PD601AR/-1Y	V	2PD601AR	AB
Q604	VSKRA103S//1Y	V	KRA103S	AA
Q605	VS2PD601AR/-1Y	V	2PD601AR	AB
Q606	VS2PD601AR/-1Y	V	2PD601AR	AB
Q613	VS2PD601AR/-1Y	V	2PD601AR	AB
Q651	VS2PD601AR/-1Y	V	2PD601AR	AB
Q652	VS2PD601AR/-1Y	V	2PD601AR	AB
Q658	VSKRA104S//1Y	V	KRA104S	AA
Q659	VSKRA104S//1Y	V	KRA104S	AA
Q660	VSKRC104S//1Y	V	KRC104S	AA
Q704	VS2PB709AR/-1Y	V	2PB709AR	AB
Q705	VS2PD601AR/-1Y	V	2PD601AR	AB
Q706	VS2PB709AR/-1Y	V	2PB709AR	AB
Q710	VS2PD601AR/-1Y	V	2PD601AR	AB
Q711	VS2PD601AR/-1Y	V	2PD601AR	AB
Q712	VSKRC102S//1Y	V	KRC102S	AA
Q850	VS2PD601AR/-1Y	V	2PD601AR	AB
Q851	VSKRC102S//1Y	V	KRC102S	AA
Q852	VSKRC102S//1Y	V	KRC102S	AA
Q853	VSKRA103S//1Y	V	KRA103S	AA
Q854	VSKRA103S//1Y	V	KRA103S	AA
Q859	VS2PB709AR/-1Y	V	2PB709AR	AB
Q860	VSKRC102S//1Y	V	KRC102S	AA
Q861	VS2PD601AR/-1Y	V	2PD601AR, LCD Back Light	AB
Q1901	VS2SC3852A/-1	V	2SC3852A, M_27V	AH
Q1904	VSKRC102S//1Y	V	KRC102S	AA
Q1905	VS2SA1271-Y-1+	V	2SA1271-Y, PC_5V(3) SW	AC
Q1907	VS2SA1271-Y-1+	V	2SA1271-Y, PC_5V(3) SW	AC
Q1908	VS2SA1271-Y-1+	V	2SA1271-Y, PC_5V(2) SW	AC
Q1910	VSKRC102S//1Y	V	KRC102S	AA
Q1911	VSKRC102S//1Y	V	KRC102S	AA
Q1912	VSKRC103S//1Y	V	KRC103S	AA
Q1913	VSKRC102S//1Y	V	KRC102S	AA
Q1914	VS2SB1443TV1E+	V	2SB1443TV, PC_13V SW	AE
Q1915	VS2SA1015Y/1E+	V	2SA1015Y, PC_40V SW	AB
Q1916	VSKRC103S//1Y	V	KRC103S	AA
Q1918	VS2SC3203Y/-1+	V	2SC3203Y	AC
Q6003	VSKRC104S//1Y	V	KRC104S	AA
Q6004	VSKRA103S//1Y	V	KRA103S	AA
Q6005	VSKRC104S//1Y	V	KRC104S	AA
Q6006	VSKRC103S//1Y	V	KRA103S	AA
Q6007	VS2SD1306-E-1Y	V	2SD1306-E	AC
Q6008	VS2SD1306-E-1Y	V	2SD1306-E	AC
Q6009	VSKRC104S//1Y	V	KRC104S	AA
Q6010	VSKRC104S//1Y	V	KRC104S	AA
Q6101	VS2PD601AR/-1Y	V	2PD601AR	AB
Q6102	VS2PD601AR/-1Y	V	2PD601AR	AB

DIODES AND LED'S

D101	RH-EX0627GEZZY	V	Zener	AA
D102	RH-EX0627GEZZY	V	Zener	AA
D351	VHD1SS119//1Y	V	1SS119	AA
D691	VHD1SS119//1Y	V	1SS119	AA
D692	VHD1SS119//1Y	V	1SS119	AA
D701	RH-PX0270GEZZ+	V	PhotoDiode, Cassette LED	AC
D702	VHD1SS119//1Y	V	1SS119	AA
D706	RH-PX0252GEZZ	V	PX0252GE, Supply Reel Sensor	AF
D707	RH-PX0252GEZZ	V	PX0252GE, Takeup Reel Sensor	AF
D710	VHD1SS119//1Y	V	1SS119	AA
D712	VHD1SS119//1Y	V	1SS119	AA
D721	VHD1SS119//1Y	V	1SS119	AA
D731	VHD1SS119//1Y	V	1SS119	AA
D801	VHD1SS119//1Y	V	1SS119	AA
D823	RH-EX0634GEZZY	V	Zener	AB
D1901	RH-EX0670GEZZY	V	Zener	AB
D1902	VHD1SS119//1Y	V	1SS119	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTKB210TEV4(NC70H)									
	DUNTKB210TEV5(NC65H)								
	DUNTKB210TEV7(NC65S)								
	VCR MAIN PWB UNIT(Continued)								
D1903	VHD1SS119//1Y	V	1SS119	AA	C304	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1904	VHD1SS119//1Y	V	1SS119	AA	C305	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1905	VHD1SS119//1Y	V	1SS119	AA	C306	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1907	VHD1SS119//1Y	V	1SS119	AA	C307	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1908	RH-EX0631GEZZY	V	Zener	AA	C308	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1909	VHD1SS119//1Y	V	1SS119	AA	C309	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D1930	VHDR1N4003-1	V	RL1N4003	AA	C310	VCKCYC1HF103ZY	V	0.01	50V Ceramic
D1971	RH-EX0673GEZZY	V	Zener	AB	C311	VCKCYC1HF103ZS	V	0.01	50V Ceramic
D6005	VHD1SS119//1Y	V	1SS119	AA	C313	VCCCCY1HH3R0CS	V	3p	50V Ceramic
D6006	VHD1SS119//1Y	V	1SS119	AA	C319	VCCCCY1HH3R0CS	V	3p	50V Ceramic
P6101	VHPGP1F550T-1	V	PhotoDiode(NC70H)		C320	VCCCCY1HH220JS	V	22p	50V Ceramic
Q701	RH-PX0233GEZZ	V	PX0233GE, Start Sensor	AD	C326	VCCCCY1HH150JS	V	15p	50V Ceramic
Q702	RH-PX0233GEZZ	V	PX0233GE, End Sensor	AD	C327	VCCCCY1HH150JS	V	15p	50V Ceramic
PACKAGED CIRCUITS									
X502	RCRSB0232GEZZ+	V	Crystal, CRSB0232GE	AG	C328	VCCCCY1HH150JS	V	15p	50V Ceramic
X701	RCRSB0205GEZZ+	V	Crystal, CRSB0205GE	AM	C351	VCEA9M0JW476M+	V	4.7	6.3V Electrolytic
X702	RCRSB0138GEZZ	V	Crystal, CRSB0138GE	AD	C352	VCKCYC1CF104ZS	V	0.1	16V Ceramic
COILS AND TRANSFORMER									
L102	VP-CF101K0000Y	V	Peaking, 100μH	AB	C353	VCKCYC1HF103ZS	V	0.01	50V Ceramic
L104	VP-XF100K0000Y	V	Peaking, 10μH	AB	C354	VCKCYC1HF103ZS	V	0.01	50V Ceramic
L105	VP-XF100K0000Y	V	Peaking, 10μH	AB	C356	VCCCCY1HH101JS	V	100p	50V Ceramic
L106	VP-XF100K0000Y	V	Peaking, 10μH(NC65S)	AB	C357	VCKCYC1CB104KS	V	0.1	16V Ceramic
L107	VP-XF100K0000Y	V	Peaking, 10μH(NC65S)	AB	C358	VCKCYC1CB104KS	V	0.1	16V Ceramic
L201	VP-XF181K0000+	V	Peaking, 180μH (NC65H/NC70H)	AB	C401	VCKCYC1HF103ZS	V	0.01	50V Ceramic
L201	VP-XF221K0000+	V	Peaking, 220μH(NC65S)	AB	C501	VCEA9M0JW107M+	V	100	6.3V Electrolytic
L301	VP-MK101K0000+	V	Peaking, 100μH	AB	C502	VCKCYC1CF104ZS	V	0.1	16V Ceramic
L304	VP-XF120K0000Y	V	Peaking, 12μH	AB	C503	VCKCYC1CF104ZS	V	0.1	16V Ceramic
L351	VP-MK101K0000+	V	Peaking, 100μH	AB	C504	VCEA9M1HW225M+	V	2.2	50V Electrolytic
L501	VP-XF560K0000+	V	Peaking, 56μH	AB	C505	VCKCYC1EB223KS	V	0.022	25V Ceramic
L502	VP-XF101K0000Y	V	Peaking, 100μH	AB	C506	VCEA9M1HW474M+	V	0.47	50V Electrolytic
L503	VP-XF120K0000+	V	Peaking, 12μH	AB	C507	VCKCYC1CF104ZS	V	0.1	16V Ceramic
L602	VP-DF221K0000Y	V	Peaking, 220μH	AB	C508	VCEA9M1HW475M+	V	4.7	50V Electrolytic
⚠ T601	RTRNH0098GEZZ	V	OSC. Transformer	AE	C509	VCKCYC1HF103ZS	V	0.01	50V Ceramic
CAPACITORS									
C104	VCKCYC1HF103ZS	V	0.01	50V Ceramic	C510	VCCCCY1HH270JS	V	27p	50V Ceramic
C105	VCEA0A0JW477M+	V	470	6.3V Electrolytic	C512	VCKCYC1HF103ZS	V	0.01	50V Ceramic
C106	VCKYPAP1HF103Z+	V	0.01	50V Ceramic	C513	VCKCYC1HF103ZS	V	0.01	50V Ceramic
C112	VCKYD41HF104ZY	V	0.1	50V Ceramic	C514	VCKCYC1HF103ZS	V	0.01	50V Ceramic
C113	VCEA9A1HW105M+	V	1	50V Electrolytic	C515	VCKCYC1HB331KS	V	330p	50V Ceramic
C163	VCEA9M1HW475M+	V	4.7	50V Electrolytic	C516	VCEA9M1HW105M+	V	1	50V Electrolytic
C201	VCEA9M0JW476M+	V	47	6.3V Electrolytic	C517	VCEA9M1HW335M+	V	3.3	50V Electrolytic
C202	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C518	VCKCYC1CB333KS	V	0.033	16V Ceramic
C203	VCCCCY1HH151JS	V	150p	50V Ceramic	C519	VCKCYC1CF104ZS	V	0.1	16V Ceramic
C204	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C521	VCCCCY1HH5R0CS	V	5p	50V Ceramic
C205	VCCCCY1HH220JS	V	22p	50V Ceramic	C522	VCCCCY1HH120JS	V	12p	50V Ceramic
C206	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C602	VCKCYC1EB123K	V	0.012	25V Ceramic
C207	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C603	VCEA9M1CW226M+	V	22	16V Electrolytic
C208	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C604	VCKCYC1HB102KS	V	1000p	50V Ceramic
C209	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C605	VCEA9M1HW335M+	V	3.3	50V Electrolytic
C210	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C606	VCEA9M1CW106M+	V	10	16V Electrolytic
C211	VCEA9M1HW335M+	V	3.3	50V Electrolytic	C607	VCEA9M1HW475M+	V	4.7	50V Electrolytic
C212	VCEA9M1CW106M+	V	10	16V Electrolytic	C608	VCEA9M1CW226M+	V	22	16V Electrolytic
C213	VCEA9M1HW225M+	V	2.2	50V Electrolytic	C610	VCKCYC1CF104ZS	V	0.1	16V Ceramic
C214	VCEA9M1HW105M+	V	1	50V Electrolytic	C611	VCKCYC1CF104ZS	V	0.1	16V Ceramic
C216	VCEA9M1HW105M+	V	1	50V Electrolytic	C613	VCKCYC1HB682K	V	6800p	50V Ceramic
C217	VCEA9M0JW476M+	V	47	6.3V Electrolytic	C617	VCEA9M1CW476M+	V	47	16V Electrolytic
C218	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C618	VCKCYC1EB103KS	V	0.01	25V Ceramic
C219	VCKCYC1CB104KS	V	0.1	16V Ceramic	C619	VCKCYC1EB103KS	V	0.01	25V Ceramic
C220	VCKCYC1CB104KS	V	0.1	16V Ceramic	C620	VCEA9M1CW106M+	V	10	16V Electrolytic
C221	VCEA9M1CW106M+	V	10	16V Electrolytic	C621	VCQPYA2AA562J+	V	5600p	100V Mylar
C223	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C622	VCKCYC1HB102KS	V	1000p	50V Ceramic
C227	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C631	VCCCCY1HH101JS	V	100p	50V Ceramic
C251	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C632	VCCCCY1HH101JY	V	100p	50V Ceramic
C301	VCEA9M0JW476M+	V	47	6.3V Electrolytic	C634	VCEA9M1HW475M+	V	4.7	50V Electrolytic
C302	VCKCYC1CF104ZS	V	0.1	16V Ceramic	C635	VCKCYC1HB221KY	V	220p	50V Ceramic
C303	VCKCYC1HF103ZS	V	0.01	50V Ceramic	C636	VCKCYC1HB222KS	V	2200p	50V Ceramic
					C651	VCEA9M1HW475M+	V	4.7	50V Electrolytic
					C653	VCEA9M1CW106M+	V	10	16V Electrolytic
					C654	VCEA9M1CW106M+	V	10	16V Electrolytic
					C655	VCEA9M1CW106M+	V	10	16V Electrolytic
					C656	VCKCYC1EB473KS	V	0.047	25V Ceramic
					C657	VCKCYC1EB153KS	V	0.015	25V Ceramic
					C658	VCEA9M0JW336M+	V	33	6.3V Electrolytic
					C660	VCEA9M1HW105M+	V	1	50V Electrolytic
					C661	VCEA9M1HW475M+	V	4.7	50V Electrolytic
					C663	VCEA9M1CW106M+	V	10	16V Electrolytic
					C664	VCEA9M1CW106M+	V	10	16V Electrolytic
					C665	VCEA9M1CW106M+	V	10	16V Electrolytic

Ref. No.	Part No.	★	Description	Code
DUNTKB210TEV4(NC70H)				
DUNTKB210TEV5(NC65H)				
DUNTKB210TEV7(NC65S)				
VCR MAIN PWB UNIT(Continued)				

C666	VCKYCY1EB473KS	V 0.047	25V Ceramic	AB
C667	VCKYCY1EB153KS	V 0.015	25V Ceramic	AA
C668	VCEA9M0JW336M+	V 33	6.3V Electrolytic	AB
C670	VCEA9M1HW105M+	V 1	50V Electrolytic	AB
C671	VCEA9M1CW107M+	V 100	16V Electrolytic	AB
C673	VCEA9M1CW226M+	V 22	16V Electrolytic	AB
C674	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C675	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C676	VCEA9M1CW226M+	V 22	16V Electrolytic	AB
C677	VCEA9M1CW106M+	V 10	16V Electrolytic	AB
C678	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C679	VCKYCY1CF224ZS	V 0.22	16V Ceramic	AB
C681	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C682	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C683	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C686	VCKYCY0JF105ZS	V 1	6.3V Ceramic	AB
C687	VCKYCY0JF105ZS	V 1	6.3V Ceramic	AB
C691	VCEA9M0JW227M+	V 220	6.3V Electrolytic	AB
C701	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C702	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C703	VCKYCY0JF105ZS	V 1	6.3V Ceramic	AB
C704	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C705	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C706	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C707	VCCCCY1HH120JS	V 12p	50V Ceramic	AA
C708	VCCCCY1HH120JS	V 12p	50V Ceramic	AA
C709	VCCCCY1HH180JS	V 18p	50V Ceramic	AA
C710	VCCCCY1HH180JS	V 18p	50V Ceramic	AA
C713	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C715	VCCCCY1HH101JS	V 100p	50V Ceramic	AA
C716	VCKYCY0JB105KY	V 1	6.3V Ceramic	AC
C717	VCKYCY0JF105ZS	V 1	6.3V Ceramic	AB
C718	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C721	VCKYCY1EB103KS	V 0.01	25V Ceramic	AA
C722	VCEA9M0JW107M+	V 100	6.3V Electrolytic	AB
C723	VCKYCY1EB473KS	V 0.047	25V Ceramic	AB
C724	VCKYCY1EB473KS	V 0.047	25V Ceramic	AB
C725	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C726	VCKYCY1HB102KS	V 1000p	50V Ceramic	AA
C728	VCKYD41CY103NY	V 0.01	16V Ceramic	AB
C729	VCKYCY1HB222KS	V 2200p	50V Ceramic	AA
C730	VCKYCY1EB103KS	V 0.01	25V Ceramic	AA
C731	VCKYCY1EB103KS	V 0.01	25V Ceramic	AA
C732	VCEA9M1CW226M+	V 22	16V Electrolytic	AB
C733	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C734	VCKYCY1HB102KS	V 1000p	50V Ceramic	AA
C735	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C740	VCKYCY1HB221KS	V 220p	50V Ceramic	AA
C741	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C742	VCEA9M1CW226M+	V 22	16V Electrolytic	AB
C743	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C744	VCKYCY1HB222KY	V 2200p	50V Ceramic	AA
C745	VCKYCY1HB682K	V 6800p	50V Ceramic	AA
C750	VCEA2A1VW107M+	V 100	35V Electrolytic	AC
C751	VCKYD41CY103NY	V 0.01	16V Ceramic	AB
C752	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C754	VCKYD41CY103NY	V 0.01	16V Ceramic	AB
C755	VCKYCY1CF104ZS	V 0.1	16V Ceramic	AA
C760	VCEA9M1CW476M+	V 47	16V Electrolytic	AB
C781	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C782	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C783	VCKYCY1HB102KS	V 1000p	50V Ceramic	AA
C784	VCKYCY1HB102KS	V 1000p	50V Ceramic	AA
C785	VCKYCY1HF103ZS	V 0.01	50V Ceramic	AA
C786	VCEA9M1HW105M+	V 1	50V Electrolytic	AB
C787	VCEA2A0JW477M+	V 470	6.3V Electrolytic	AC
C788	VCEA0A0JW338M	V 3300	6.3V Electrolytic	AD
C789	VCEA0A0JW228M	V 2200	6.3V Electrolytic	AD
C791	VCKYD41HF104ZY	V 0.1	50V Ceramic	AA
C797	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code
C798				
VCEAKM1CW476M+				
V 47				
16V Electrolytic				
AB				
C801				
VCCCCY1HH470JS				
V 47p				
50V Ceramic				
AA				
C802				
VCCCCY1HH470JS				
V 47p				
50V Ceramic				
AA				
C822				
VCEA9A1CW106M+				
V 10				
16V Electrolytic				
AB				
C823				
VCEA9M0JW476M+				
V 47				
6.3V Electrolytic				
AB				
C862				
VCKYCY1HB102KY				
V 1000p				
50V Ceramic				
AA				
C863				
VCKYCY1HB102KY				
V 1000p				
50V Ceramic				
AA				
C864				
VCKYCY1HB102KY				
V 1000p				
50V Ceramic				
AA				
C947				
VCEA0A1CW107M+				
V 100				
16V Electrolytic				
AC				
C952				
VCEA9A0JW227M+				
V 220				
6.3V Electrolytic				
AB				
C1901				
VCEA9M1HW105M+				
V 1				
50V Electrolytic				
AB				
C1902				
VCEA9M1CW226M+				
V 22				
16V Electrolytic				
AB				
C1905				
VCEA9M1CW226M+				
V 22				
16V Electrolytic				
AB				
C1906				
VCEA9M1CW106M+				
V 10				
16V Electrolytic				
AB				
C1907				
VCEA9M1CW106M+				
V 10				
16V Electrolytic				
AB				
C1971				
VCEA9M1HW105M+				
V 1				
50V Electrolytic				
AB				
C2014				
VCEA9M1CW106M+				
V 10				
16V Electrolytic				
AB				
C2015				
VCKYCY1CB104KS				
V 0.1				
16V Ceramic				
AB				
C2016				
VCKYCY1CB104KS				
V 0.1				
16V Ceramic				
AB				
C2017				
VCEA9M1CW106M+				
V 10				

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code	
DUNTKB210TEV4(NC70H)										
DUNTKB210TEV5(NC65H)										
DUNTKB210TEV7(NC65S)										
VCR MAIN PWB UNIT(Continued)										
R309	VRD-RA2BE222JY	V 2.2k	1/8W	Carbon AA	R702	VRD-RA2BE102JY	V 1k	1/8W	Carbon AA	
R312	VRD-RA2BE681JY	V 680	1/8W	Carbon AA	R704	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	
R313	VRS-CY1JF562JS	V 5.6k	1/16W	Metal Oxide AA	R705	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	
R314	VRS-CY1JF000JY	V 0	1/16W	Metal Oxide AA	R706	VRS-CY1JF564JS	V 560k	1/16W	Metal Oxide AA	
R351	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	R708	VRS-CY1JF332JS	V 3.3k	1/16W	Metal Oxide AA	
R401	VRS-CY1JF562JS	V 5.6k	1/16W	Metal Oxide AA	R709	VRS-CY1JF222JS	V 2.2k	1/16W	Metal Oxide AA	
R402	VRD-RA2BE472JY	V 4.7k	1/8W	Carbon AA	R711	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
R501	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	R713	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
R502	VRS-CY1JF273JS	V 27k	1/16W	Metal Oxide AA	R714	VRS-CY1JF223JS	V 22k	1/16W	Metal Oxide AA	
R504	VRS-CY1JF221JS	V 220	1/16W	Metal Oxide AA	R715	VRS-CY1JF472JS	V 4.7k	1/16W	Metal Oxide AA	
R505	VRS-CY1JF224JS	V 220k	1/16W	Metal Oxide AA	R716	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
		(NC65S)				R717	VRS-CY1JF123JS	V 12k	1/16W	Metal Oxide AA
R511	VRS-CY1JF472JY	V 4.7k	1/16W	Metal Oxide AA	R718	VRS-CY1JF563JS	V 56k	1/16W	Metal Oxide AA	
R512	VRS-CY1JF272JS	V 2.7k	1/16W	Metal Oxide AA	R719	VRS-CY1JF183JS	V 18k	1/16W	Metal Oxide AA	
R601	VRS-CY1JF183JS	V 18k	1/16W	Metal Oxide AA	R720	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R602	VRS-CY1JF274JS	V 270k	1/16W	Metal Oxide AA	R721	VRS-CY1JF223JS	V 22k	1/16W	Metal Oxide AA	
R603	VRS-CY1JF181J	V 180	1/16W	Metal Oxide AA	R722	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	
R604	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	R724	VRS-CY1JF104JS	V 100k	1/16W	Metal Oxide AA	
R605	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	R725	VRS-CY1JF332JS	V 3.3k	1/16W	Metal Oxide AA	
R606	VRS-CY1JF333JS	V 33k	1/16W	Metal Oxide AA	R726	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	
R609	VRS-CY1JF562JS	V 5.6k	1/16W	Metal Oxide AA	R727	VRS-CY1JF154JS	V 150k	1/16W	Metal Oxide AA	
R610	VRS-CY1JF272JS	V 2.7k	1/16W	Metal Oxide AA	R728	VRS-CY1JF332JS	V 3.3k	1/16W	Metal Oxide AA	
R611	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	R729	VRS-CY1JF101JS	V 100	1/16W	Metal Oxide AA	
R615	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	R730	VRS-CY1JF101JS	V 100	1/16W	Metal Oxide AA	
R616	VRS-CY1JF183JS	V 18k	1/16W	Metal Oxide AA	R731	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	
R619	VRS-CY1JF470JS	V 47	1/16W	Metal Oxide AA	R732	VRS-CY1JF154JS	V 150k	1/16W	Metal Oxide AA	
R620	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	R733	VRS-CY1JF105JS	V 1M	1/16W	Metal Oxide AA	
R621	VRD-RA2EE4R7JY	V 4.7	1/4W	Carbon AA	R735	VRS-CY1JF104JS	V 100k	1/16W	Metal Oxide AA	
R623	VRD-RA2BE273JY	V 27k	1/8W	Carbon AA	R736	VRS-CY1JF822JS	V 8.2k	1/16W	Metal Oxide AA	
R624	VRS-CY1JF472JS	V 4.7k	1/16W	Metal Oxide AA	R737	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R625	VRS-CY1JF222JS	V 2.2k	1/16W	Metal Oxide AA	R738	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R627	VRS-CY1JF392JS	V 3.9k	1/16W	Metal Oxide AA	R739	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
R631	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	R741	VRS-CY1JF123JS	V 12k	1/16W	Metal Oxide AA	
R632	VRS-CY1JF104JY	V 100k	1/16W	Metal Oxide AA	R742	VRS-CY1JF223JS	V 22k	1/16W	Metal Oxide AA	
R633	VRS-CY1JF104JY	V 100k	1/16W	Metal Oxide AA	R743	VRS-CY1JF563JS	V 56k	1/16W	Metal Oxide AA	
R634	VRS-CY1JF101JY	V 100	1/16W	Metal Oxide AA	R744	VRS-CY1JF223JS	V 22k	1/16W	Metal Oxide AA	
R638	VRD-RA2BE473JY	V 47k	1/8W	Carbon AA	R745	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
R639	VRS-CY1JF333JY	V 33k	1/16W	Metal Oxide AA	R746	VRS-CY1JF182JS	V 1.8k	1/16W	Metal Oxide AA	
R640	VRS-CY1JF682JY	V 6.8k	1/16W	Metal Oxide AA	R747	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	
R651	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	R748	VRS-CY1JF681JS	V 680	1/16W	Metal Oxide AA	
R652	VRS-CY1JF332JS	V 3.3k	1/16W	Metal Oxide AA	R750	VRD-RA2BE473JY	V 47k	1/8W	Carbon AA	
R653	VRS-CY1JF393JS	V 39k	1/16W	Metal Oxide AA	R751	VRD-RA2BE562JY	V 5.6k	1/8W	Carbon AA	
R654	VRS-CY1JF392JS	V 3.9k	1/16W	Metal Oxide AA	R752	VRD-RA2BE562JY	V 5.6k	1/8W	Carbon AA	
R655	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	R754	VRD-RA2EE181JY	V 180	1/4W	Carbon AA	
R656	VRS-CY1JF392JS	V 3.9k	1/16W	Metal Oxide AA	R756	VRD-RA2BE103JY	V 10k	1/8W	Carbon AA	
R657	VRD-RA2BE222JY	V 2.2k	1/8W	Carbon AA	R760	VRG-SC2EB1R0J+	V 1	1/4W	Fuse Resistor AB	
R658	VRS-CY1JF562JS	V 5.6k	1/16W	Metal Oxide AA	R771	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R659	VRS-CY1JF472JS	V 4.7k	1/16W	Metal Oxide AA	R781	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R660	VRS-CY1JF471JS	V 470	1/16W	Metal Oxide AA	R782	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R661	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	R783	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	
R662	VRS-CY1JF332JS	V 3.3k	1/16W	Metal Oxide AA	R784	VRD-RA2BE102JY	V 1k	1/8W	Carbon AA	
R663	VRS-CY1JF393JS	V 39k	1/16W	Metal Oxide AA	R785	VRD-RA2BE391JY	V 390	1/8W	Carbon AA	
R664	VRS-CY1JF392JS	V 3.9k	1/16W	Metal Oxide AA	R786	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	
R665	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	R788	VRS-CY1JF104JS	V 100k	1/16W	Metal Oxide AA	
R666	VRS-CY1JF392JS	V 3.9k	1/16W	Metal Oxide AA	R789	VRD-RA2BE391JY	V 390	1/8W	Carbon AA	
R667	VRS-CY1JF222JS	V 2.2k	1/16W	Metal Oxide AA	R790	VRS-CY1JF473JS	V 47k	1/16W	Metal Oxide AA	
R668	VRD-RA2BE562JY	V 5.6k	1/8W	Carbon AA	R792	VRS-CY1JF104JS	V 100k	1/16W	Metal Oxide AA	
R669	VRS-CY1JF472JS	V 4.7k	1/16W	Metal Oxide AA	R796	VRD-RM2HD271JY	V 270	1/2W	Carbon AA	
R670	VRS-CY1JF471JS	V 470	1/16W	Metal Oxide AA	R797	VRD-RA2BE103JY	V 10k	1/8W	Carbon AA	
R671	VRD-RA2BE103JY	V 10k	1/8W	Carbon AA	R798	VRD-RA2BE103JY	V 10k	1/8W	Carbon AA	
R672	VRS-CY1JF151JS	V 150	1/16W	Metal Oxide AA	R799	VRD-RA2BE101JY	V 100	1/8W	Carbon AA	
R673	VRS-CY1JF151JS	V 150	1/16W	Metal Oxide AA	R802	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	
R676	VRS-CY1JF102JS	V 1k	1/16W	Metal Oxide AA	R803	VRS-CY1JF153JS	V 15k	1/16W	Metal Oxide AA	
R678	VRS-CY1JF273JS	V 27k	1/16W	Metal Oxide AA	R805	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R681	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	R806	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	
R682	VRS-CY1JF000JS	V 0	1/16W	Metal Oxide AA	R811	VRD-RA2BE183JY	V 18k	1/8W	Carbon AA	
R685	VRS-CY1JF272JS	V 2.7k	1/16W	Metal Oxide AA	R812	VRS-CY1JF272JS	V 2.7k	1/16W	Metal Oxide AA	
R686	VRS-CY1JF272JS	V 2.7k	1/16W	Metal Oxide AA	R821	VRD-RA2BE183JY	V 18k	1/8W	Carbon AA	
R691	VRD-RA2BE102JY	V 1k	1/8W	Carbon AA	R841	VRD-RA2BE221JY	V 220	1/8W	Carbon AA	
R693	VRS-CY1JF103JS	V 10k	1/16W	Metal Oxide AA	R842	VRD-RA2BE221JY	V 220	1/8W	Carbon AA	
					R843	VRD-RA2BE221JY	V 220	1/8W	Carbon AA	
					R844	VRD-RA2BE221JY	V 220	1/8W	Carbon AA	
					R853	VRD-RA2BE222JY	V 2.2k	1/8W	Carbon AA	
					R855	VRD-RA2BE222JY	V 2.2k	1/8W	Carbon AA	
					R856	VRD-RA2BE103JY	V 10k	1/8W	Carbon AA	

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code					
DUNTKB210TEV4(NC70H) DUNTKB210TEV5(NC65H) DUNTKB210TEV7(NC65S) VCR MAIN PWB UNIT(Continued)														
R857	VRD-RA2BE472JY	V	4.7k 1/8W	Carbon AA	R7717	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R858	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	R7721	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R859	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	R7722	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R867	VRD-RA2BE222JY	V	2.2k 1/8W	Carbon AA	R7723	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1203	VRS-CY1JF750JS	V	75 1/16W	Metal Oxide AA	R7724	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1204	VRS-CY1JF750JS	V	75 1/16W	Metal Oxide AA	R7725	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1208	VRS-CY1JF750JS	V	75 1/16W	Metal Oxide AA	R7726	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1861	VRS-CY1JF473JS	V	47k 1/16W	Metal Oxide AA	R7727	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1901	VRD-RA2BE472JY	V	4.7k 1/8W	Carbon AA	R7728	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1902	VRD-RA2BE222JY	V	2.2k 1/8W	Carbon AA	R7729	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1906	VRD-RA2BE222JY	V	2.2k 1/8W	Carbon AA	R7730	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1907	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	R7731	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1909	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	R7732	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1910	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	R7733	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1912	VRD-RA2BE471JY	V	470 1/8W	Carbon AA	R7734	VRD-RA2BE101JY	V	100 1/8W	Carbon AA					
R1913	VRD-RA2BE471JY	V	470 1/8W	Carbon AA	R7735	VRD-RA2BE101JY	V	100 1/8W	Carbon AA					
R1915	VRD-RA2BE222JY	V	2.2k 1/8W	Carbon AA	R7736	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1916	VRD-RA2BE222JY	V	2.2k 1/8W	Carbon AA	R7737	VRD-RA2BE101JY	V	100 1/8W	Carbon AA					
R1917	VRD-RM2HD102JY	V	1k 1/2W	Carbon AA	R7738	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1918	VRS-CY1JF224JS	V	220k 1/16W	Metal Oxide AA	R7739	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA					
R1919	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	SWITCHES									
R1920	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	S701	QSW-F0042AJZZ	V	Switch, REC Tip SW	AG					
R1921	VRS-CY1JF103JS	V	10k 1/16W	Metal Oxide AA	S704	QSW-RA001WJZZ	V	Switch	AF					
R1922	VRS-CY1JF103JS	V	10k 1/16W	Metal Oxide AA	BALUNES									
R1923	VRS-CY1JF103JS	V	10k 1/16W	Metal Oxide AA	FB702	RBLN-0090GEZZY	V	Balun, BLN-0090GE	AB					
R1971	VRD-RM2HD152JY	V	1.5k 1/2W	Carbon AA	FB1202	RBLN-0077TAZZS	V	Balun, BLN-0077TA	AB					
R2018	VRS-CY1JF000JS	V	0 1/16W	Metal Oxide AA	FB1203	RBLN-0077TAZZS	V	Balun, BLN-0077TA	AB					
R6001	VRS-CY1JF103JS	V	10k 1/16W	Metal Oxide AA	JA317	RBLN-0090GEZZY	V	Balun, BLN-0090GE	AB					
R6036	VRS-CY1JF102JS	V	1k 1/16W	Metal Oxide AA	MISCELLANEOUS PARTS									
R6037	VRS-CY1JF102JS	V	1k 1/16W	Metal Oxide AA	CN501	QSOCN2999REZZ	V	Socket, 29Pin	AE					
R6038	VRS-CY1JF223JS	V	22k 1/16W	Metal Oxide AA	CN801	QSOCN0895REZZ	V	Socket, 8Pin	AC					
R6039	VRS-CY1JF223JS	V	22k 1/16W	Metal Oxide AA	CN802	QSOCN1095REZZ	V	Socket, 10Pin	AC					
R6040	VRS-CY1JF223JS	V	22k 1/16W	Metal Oxide AA	CN803	QSOCN1595REZZ	V	Socket, 15Pin	AD					
R6041	VRS-CY1JF223JS	V	22k 1/16W	Metal Oxide AA	J1201	QSOCD0445AJZZ	V	Socket, 5Pin	AF					
R6042	VRS-CY1JF153JS	V	15k 1/16W	Metal Oxide AA	J1202	QJAKG0093CEZZ	V	Jack, 14Pin	AH					
R6043	VRS-CY1JF153JS	V	15k 1/16W	Metal Oxide AA	J1205	QJAKGA010WJZZ	V	Jack, 5Pin	AH					
R6044	VRS-CY1JF474JS	V	470k 1/16W	Metal Oxide AA	P302	QSOCN1899REZZ	V	Socket, 18Pin	AD					
R6045	VRS-CY1JF474JS	V	470k 1/16W	Metal Oxide AA	P303	QSOCN0899REZZ	V	Socket, 8Pin						
R6046	VRS-CY1JF153JS	V	15k 1/16W	Metal Oxide AA	P701	QPLGZ1283GEZZ	V	Plug, 12Pin	AE					
R6047	VRS-CY1JF153JS	V	15k 1/16W	Metal Oxide AA	P7003	QPLGN1278GEZZ	V	Plug, 12Pin	AC					
R6048	VRS-CY1JF681JS	V	680 1/16W	Metal Oxide AA	SC301	QSOCNA006WJZZ	V	Socket, 9Pin	AD					
R6049	VRD-RA2BE681JY	V	680 1/8W	Carbon AA	SC601	QSOCN0611REN1	V	Socket, 6Pin	AC					
R6050	VRS-CY1JF473JS	V	47k 1/16W	Metal Oxide AA	SC602	QSOCZ0293GEZZ	V	Socket, 2Pin	AC					
R6051	VRS-CY1JF473JS	V	47k 1/16W	Metal Oxide AA	SC2504	QSOCN1995REZZ	V	Socket, 19Pin	AD					
R6052	VRS-CY1JF272JS	V	2.7k 1/16W	Metal Oxide AA	SC2505	QSOCN1995REZZ	V	Socket, 19Pin	AD					
R6053	VRS-CY1JF272JS	V	2.7k 1/16W	Metal Oxide AA	TP201	QPLGN0447REZZ	V	Plug, 4Pin	AA					
R6101	VRS-CY1JF000JS	V	0 1/16W	Metal Oxide AA	W851	LHLDZ2185AJ00	V	Holder	AB					
R6102	VRS-CY1JF272JS	V	2.7k 1/16W	Metal Oxide AA	W852	LHLDZ2185AJ00	V	Holder	AB					
R6103	VRD-RM2HD101JY	V	100 1/2W	Carbon AA	DUNTKB372TEV1 TERMINAL PWB UNIT									
R6104	VRD-RA2BE151JY	V	150 1/8W	Carbon AA	INTEGRATED CIRCUITS									
R6105	VRD-RA2BE103JY	V	10k 1/8W	Carbon AA	IC1701	VHiMSP3417G-1Q	V	MSP3417G, MPX Decoder	AY					
R6106	VRS-CY1JF681JS	V	680 1/16W	Metal Oxide AA	IC1801	VHiLC74793J1EY	V	LC74793J, VPS/PDC	AV					
R6107	VRS-CY1JF222JS	V	2.2k 1/16W	Metal Oxide AA	IC2501	VHiLA73024V-1Y	V	LA73024V, Selector						
R6108	VRS-CY1JF103JS	V	10k 1/16W	Metal Oxide AA	IC2502	VHiMM1506XN-1Y	V	MM1506XN, R Selector	AD					
R6151	VRS-CY1JF000JS	V	0 1/16W	Metal Oxide AA	IC2503	VHiMM1506XN-1Y	V	MM1506XN, G Selector	AD					
R6152	VRS-CY1JF000JS	V	0 1/16W	Metal Oxide AA	IC2504	VHiMM1506XN-1Y	V	MM1506XN, B Selector	AD					
R6802	VRS-CY1JF000JS	V	0 1/16W	Metal Oxide AA	IC2591	VHiPQ30RV11-1	V	PQ30RV11	AF					
R7701	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	IC2701	VHiMM1567AJ-1Y	V	MM1567AJ, LPF+ Driver	AM					
R7704	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	IC2706	VHiMM1113XF1EY	V	MM1113XF, Comp/Y Selector	AE					
R7705	VRD-RA2BE101JY	V	100 1/8W	Carbon AA	IC2707	VHiMM1505XN-1Y	V	MM1505XN, C Driver						
R7706	VRD-RA2BE101JY	V	100 1/8W	Carbon AA	IC2708	VHiMM1508XN-1Y	V	MM1508XN, Y Driver	AE					
R7708	VRD-RA2BE101JY	V	100 1/8W	Carbon AA	TRANSISTORS									
R7709	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	Q1701	VS2PB709AR/-1Y	V	2PB709AR	AB					
R7710	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	Q1702	VSKRC104S//1Y	V	KRC104S	AA					
R7711	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	Q2301	VSKRC104S//1Y	V	KRC104S	AA					
R7712	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA	Q2302	VSKRC104S//1Y	V	KRC104S	AA					
R7713	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA										
R7714	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA										
R7715	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA										
R7716	VRS-CY1JF101JS	V	100 1/16W	Metal Oxide AA										

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code						
DUNTKB372TEV1 TERMINAL PWB UNIT(Continued)															
Q2305	VSKRA102S/-1Y	V	KRA102S	AA	C1804	VCEA9M1HW475M+	V	4.7	50V Electrolytic	AB					
Q2306	VSKRC104S/-1Y	V	KRC104S	AA	C1805	VCEA9A1HW105M+	V	1	50V Electrolytic	AB					
Q2316	VS2PD601AR/-1Y	V	2PD601AR	AB	C1806	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
Q2503	VSKRC104S/-1Y	V	KRC104S	AA	C1807	VCKYD41CY103NY	V	0.01	16V Ceramic	AB					
Q2505	VS2PD601AR/-1Y	V	2PD601AR	AB	C1811	VCEA9M0JW476M+	V	47	6.3V Electrolytic	AB					
Q2506	VS2PD601AR/-1Y	V	2PD601AR	AB	C1812	VCKYD41CY103NY	V	0.01	16V Ceramic	AB					
Q2507	VS2PB709AR/-1Y	V	2PB709AR	AB	C2501	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
Q2701	VS2PB709AR/-1Y	V	2PB709AR	AB	C2502	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
Q2702	VS2PB709AR/-1Y	V	2PB709AR	AB	C2503	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
Q2703	VS2PB709AR/-1Y	V	2PB709AR	AB	C2504	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
Q2704	VS2PB709AR/-1Y	V	2PB709AR	AB	C2505	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
Q2705	VS2PB709AR/-1Y	V	2PB709AR	AB	C2506	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
Q2901	VS2PB709AR/-1Y	V	2PB709AR	AB	C2507	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
DIODES															
D1701	RH-EX0626GEZZY	V	Zener, 8.2A	AB	C2508	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
D2307	VHD1S119/-1Y	V	1SS119	AA	C2509	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
D2503	RH-EX0627GEZZY	V	Zener	AA	C2510	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
D2505	RH-EX0646GEZZY	V	Zener	AA	C2511	VCEA9M1HW105M+	V	1	50V Electrolytic	AB					
D2506	RH-EX0627GEZZY	V	Zener	AA	C2512	VCEA0A1CW337M+	V	330	16V Electrolytic	AC					
D2507	RH-EX0646GEZZY	V	Zener	AA	C2513	VCKYCY1CF104ZY	V	0.1	16V Ceramic	AA					
D2508	RH-EX0646GEZZY	V	Zener	AA	C2514	VCKYCY1CF104ZY	V	0.1	16V Ceramic	AA					
D2509	RH-EX0646GEZZY	V	Zener	AA	C2515	VCEA0A0JW477M+	V	470	6.3V Electrolytic	AC					
D2510	RH-EX0646GEZZY	V	Zener	AA	C2518	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2511	RH-EX0646GEZZY	V	Zener	AA	C2519	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2512	RH-EX0646GEZZY	V	Zener	AA	C2520	VCKYD41CY103NY	V	0.01	16V Ceramic	AB					
D2513	RH-EX0627GEZZY	V	Zener	AA	C2522	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA					
D2514	RH-EX0627GEZZY	V	Zener	AA	C2523	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2516	RH-EX0627GEZZY	V	Zener	AA	C2524	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2517	RH-EX0646GEZZY	V	Zener	AA	C2530	VCKYCY1CF104ZY	V	0.1	16V Ceramic	AA					
D2518	RH-EX0646GEZZY	V	Zener	AA	C2531	VCEA9M0JW227M+	V	220	6.3V Electrolytic	AB					
D2519	RH-EX0646GEZZY	V	Zener	AA	C2532	VCE9EM1AW106M	V	10	10V Electrolytic	AB					
D2520	RH-EX0646GEZZY	V	Zener	AA	C2533	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2521	RH-EX0627GEZZY	V	Zener	AA	C2534	VCKYCY1CF104ZY	V	0.1	16V Ceramic	AA					
D2522	RH-EX0627GEZZY	V	Zener	AA	C2535	VCE9EM1AW106M	V	10	10V Electrolytic	AB					
D2526	RH-EX0627GEZZY	V	Zener	AA	C2536	VCEA9M1CW106M+	V	10	16V Electrolytic	AB					
D2527	RH-EX0627GEZZY	V	Zener	AA	C2538	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
D2528	RH-EX0627GEZZY	V	Zener	AA	C2539	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
D2572	RH-EX0627GEZZY	V	Zener	AA	C2540	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
PACKAGED CIRCUIT															
X1701	RCRSB0249GEZZ+	V	Crystal, 18.432MHz	AF	C2541	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
COILS															
L1703	VP-XF100J0000Y	V	Peaking, 10μH	AB	C2542	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
L1704	VP-XF100J0000Y	V	Peaking, 10μH	AB	C2543	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
L2701	VP-XF470K0000Y	V	Peaking, 47μH	AB	C2544	VCCCCY1HH101JY	V	100p	50V Ceramic	AA					
CAPACITORS															
C1701	VCCSD41HL220JY	V	22p	50V Ceramic	AM	C2545	VCCCCY1HH101JY	V	100p	50V Ceramic	AA				
C1702	VCCCD41HH470JY	V	47p	50V Ceramic	AB	C2546	VCE9EM1AW106M	V	100p	50V Ceramic	AA				
C1704	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA	C2547	VCEA9M1HW105M+	V	100p	50V Ceramic	AA				
C1705	VCEA9M1CW106M+	V	10	16V Electrolytic	AB	C2548	VCEA9M1HW105M+	V	100p	50V Ceramic	AA				
C1706	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA	C2549	VCKYCY1CF104ZY	V	0.1	16V Ceramic	AA				
C1707	VCEA9M1CW106M+	V	10	16V Electrolytic	AB	C2550	VCEA9M1HW105M+	V	1	50V Electrolytic	AB				
C1708	VCEA9M1CW226M+	V	22	16V Electrolytic	AB	C2551	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA				
C1709	VCEA9M1CW226M+	V	22	16V Electrolytic	AB	C2552	VCEA0A0JW477M+	V	470	6.3V Electrolytic	AC				
C1710	VCCCCY1HH5R0CY	V	5p	50V Ceramic	AA	C2553	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA				
C1711	VCCCCY1HH6R0DY	V	6p	50V Ceramic	AA	C2554	VCEA9M0JW227M+	V	220	6.3V Electrolytic	AB				
C1712	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA	C2555	VCEA9M1HW105M+	V	1	50V Electrolytic	AB				
C1713	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA	C2556	VCEA9M1CW106M+	V	10	16V Electrolytic	AB				
C1714	VCEA9M1HW105M+	V	1	50V Electrolytic	AB	C2557	VCEA9M0JW227M+	V	220	6.3V Electrolytic	AB				
C1715	VCKYCY1HF103ZY	V	0.01	50V Ceramic	AA	C2558	VCEA9M0JW227M+	V	220	6.3V Electrolytic	AB				
C1718	VCEA9M1CW226M+	V	22	16V Electrolytic	AB	RESISTORS									
C1720	VCCCCY1HH470JY	V	47p	50V Ceramic	AA	RJ1	VRS-CY1JF000JY	V	0	1/16W Metal Oxide	AA				
C1723	VCEA9M1CW106M+	V	10	16V Electrolytic	AB	RJ2	VRS-CY1JF000JY	V	0	1/16W Metal Oxide	AA				
C1730	VCEA9M1CW106M+	V	10	16V Electrolytic	AB	RJ3	VRS-CY1JF000JY	V	0	1/16W Metal Oxide	AA				
C1731	VCEA9M1CW106M+	V	10	16V Electrolytic	AB										
C1735	VCKYCY1HB122KY	V	1200p	50V Ceramic	AA										
C1738	VCKYCY1HB122KY	V	1200p	50V Ceramic	AA										
C1753	VCKYCY1HB331KY	V	330p	50V Ceramic	AA										
C1803	VCQYTA1HM563J+	V	0.056	50V Mylar	AB										

Ref. No.	Part No.	★	Description	Code
DUNTKB372TEV1 TERMINAL PWB UNIT(Continued)				
RJ4	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
RJ5	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
RJ6	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
RJ7	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
RJ8	VRS-CY1JF000JY	V 0	1/16W Metal Oxide	AA
R1703	VRD-RA2BE473JY	V 47k	1/8W Carbon	AA
R1710	VRD-RA2BE101JY	V 100	1/8W Carbon	AA
R1711	VRD-RA2BE101JY	V 100	1/8W Carbon	AA
R1714	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R1720	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R1723	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R1748	VRD-RM2HD221JY	V 220	1/2W Carbon	AA
R1749	VRS-CY1JF333JY	V 33k	1/16W Metal Oxide	AA
R1750	VRS-CY1JF104JY	V 100k	1/16W Metal Oxide	AA
R1801	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R1807	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R1808	VRS-CY1JF562JY	V 5.6k	1/16W Metal Oxide	AA
R1810	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R2008	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2236	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R2238	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R2242	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R2301	VRD-RA2BE102JY	V 1k	1/8W Carbon	AA
R2341	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R2342	VRD-RA2EE750J	V 75	1/4W Carbon	AA
R2501	VRS-CY1JF123JY	V 12k	1/16W Metal Oxide	AA
R2502	VRS-CY1JF123JY	V 12k	1/16W Metal Oxide	AA
R2503	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2505	VRD-RA2BE821JY	V 820	1/8W Carbon	AA
R2506	VRD-RA2BE821JY	V 820	1/8W Carbon	AA
R2507	VRS-CY1JF123JY	V 12k	1/16W Metal Oxide	AA
R2508	VRS-CY1JF123JY	V 12k	1/16W Metal Oxide	AA
R2509	VRS-CY1JF821JY	V 820	1/16W Metal Oxide	AA
R2510	VRS-CY1JF821JY	V 820	1/16W Metal Oxide	AA
R2511	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2512	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2513	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2514	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2515	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2522	VRD-RA2BE123JY	V 12k	1/8W Carbon	AA
R2523	VRD-RA2BE123JY	V 12k	1/8W Carbon	AA
R2544	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R2545	VRD-RA2BE470JY	V 47	1/8W Carbon	AA
R2546	VRS-CY1JF681JY	V 680	1/16W Metal Oxide	AA
R2547	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2551	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R2552	VRD-RA2BE470JY	V 47	1/8W Carbon	AA
R2553	VRS-CY1JF681JY	V 680	1/16W Metal Oxide	AA
R2554	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2556	VRS-CY1JF102JY	V 1k	1/16W Metal Oxide	AA
R2558	VRS-CY1JF101JY	V 100	1/16W Metal Oxide	AA
R2563	VRD-RA2BE470JY	V 47	1/8W Carbon	AA
R2564	VRS-CY1JF681JY	V 680	1/16W Metal Oxide	AA
R2565	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2570	VRD-RA2BE750JY	V 75	1/8W Carbon	AA
R2591	VRS-CY1JF103JY	V 10k	1/16W Metal Oxide	AA
R2592	VRS-CY1JF122JY	V 1.2k	1/16W Metal Oxide	AA
R2593	VRS-CY1JF473JY	V 47k	1/16W Metal Oxide	AA
R2701	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2702	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2704	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2705	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2706	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2710	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2711	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2713	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2714	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2715	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2717	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2718	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2719	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA
R2721	VRS-CY1JF272JY	V 2.7k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
SWITCH				
S2501	QSW-S0259GEZZ	V	Switch	AD
BALUNES				
FB2501	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2502	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2505	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2506	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2507	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2508	RBLN-0076TAZZY	V	Balun, BLN-0076TA	AC
FB2509	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2510	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2511	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2512	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2513	RBLN-0077TAZZY	V	Balun, BLN-0077TA	AB
FB2514	RBLN-0076TAZZY	V	Balun, BLN-0076TA	AC
MISCELLANEOUS PARTS				
CN2701	QSOCN1199REZZ	V	Socket, 11Pin	AD
SC2501	QSOCZ4297UMZZ	V	Socket, 42Pin	AH
SC2512	QSOCN0899REZZ	V	Socket, 8Pin	
SC2513	QSOCN1899REZZ	V	Socket, 18Pin	AD
SC2721	QSOCN1995REZZ	V	Socket, 19Pin	AD
SC2722	QSOCN1995REZZ	V	Socket, 19Pin	AD
DUNTKB374TEV1 DVD OPERATION PWB UNIT				
DISPLAYS				
LCD8002	RLCDD0005GEZZ	V	Display	AN
LCD8052	RLCDDA006WJZZ	V	Display	AM
INTEGRATED CIRCUITS				
IC8002	VHiPT6596++1Q	V	PT6596++, LCD Driver	AM
IC8051	VHiPT6596++1Q	V	PT6596++, LCD Driver	AM
TRANSISTOR				
Q8050	VSKRC102S/-1Y	V	KRC102S	AA
DIODES				
D8001	RH-PXA008WJZZ+	V	PhotoDiode, B/L LED	AF
D8002	RH-PXA008WJZZ+	V	PhotoDiode, B/L LED	AF
D8005	RH-PX0297GEZZ+	V	PhotoDiode, DVD LED	AD
D8006	RH-PXA008WJZZ+	V	PhotoDiode, VCR LED	AF
D8007	RH-PX0297GEZZ+	V	PhotoDiode, DVD LED	AD
D8051	RH-PX0449AJZZ+	V	PhotoDiode, Timer LED	AC
D8053	RH-PX0449AJZZ+	V	PhotoDiode, Dub LED	AC
D8054	RH-PXA021WJZZ+	V	PhotoDiode, B/L LED	AD
D8055	RH-PXA021WJZZ+	V	PhotoDiode, B/L LED	AD
D8056	RH-PXA021WJZZ+	V	PhotoDiode, B/L LED	AD
D8057	RH-PXA021WJZZ+	V	PhotoDiode, B/L LED	AD
CAPACITORS				
C8001	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8002	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8003	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8004	VCEA9M1CW106M+	V	10 16V Electrolytic	AB
C8005	VCEA9M1CW106M+	V	10 16V Electrolytic	AB
C8006	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8007	VCCCCY1HH101JY	V	100p 50V Ceramic	AA
C8008	VCCCCY1HH100DY	V	10p 50V Ceramic	AA
C8009	VCCCCY1HH101JY	V	100p 50V Ceramic	AA
C8010	VCKYCY1HB102KY	V	1000p 50V Ceramic	AA
C8051	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8052	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8053	VCKYCY1HF103ZY	V	0.01 50V Ceramic	AA
C8054	VCEA9M1CW106M+	V	10 16V Electrolytic	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code			
DUNTKB374TEV1 DVD OPERATION PWB UNIT(Continued)												
C8055	VCKYCY1HF103ZY	V	0.01	50V	Ceramic	AA						
C8056	VCKYCY1HB102KY	V	1000p	50V	Ceramic	AA						
C8057	VCKYCY1HB102KY	V	1000p	50V	Ceramic	AA						
C8058	VCKYCY1HB102KY	V	1000p	50V	Ceramic	AA						
C8059	VCKYCY1HB102KY	V	1000p	50V	Ceramic	AA						
RESISTORS												
RJ801	VRS-CY1JF000JY	V	0	1/16W	Metal Oxide	AA						
RJ803	VRS-CY1JF000JY	V	0	1/16W	Metal Oxide	AA						
RJ805	VRS-CY1JF000JY	V	0	1/16W	Metal Oxide	AA						
R8001	VRS-CY1JF473JY	V	47k	1/16W	Metal Oxide	AA						
R8002	VRD-RA2BE391JY	V	390	1/8W	Carbon	AA						
R8005	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8006	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8007	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8008	VRD-RA2BE101JY	V	100	1/8W	Carbon	AA						
R8009	VRD-RA2BE271JY	V	270	1/8W	Carbon	AA						
R8010	VRD-RA2BE471JY	V	470	1/8W	Carbon	AA						
R8050	VRD-RA2BE271JY	V	270	1/8W	Carbon	AA						
R8051	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8052	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8053	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8056	VRS-CY1JF473JY	V	47k	1/16W	Metal Oxide	AA						
R8057	VRD-RA2EE181JY	V	180	1/4W	Carbon	AA						
R8058	VRD-RA2EE181JY	V	180	1/4W	Carbon	AA						
R8062	VRS-CY1JF000JY	V	0	1/16W	Metal Oxide	AA						
SWITCHES												
SW8051	QSW-K0003AJZZ+	V	Switch, Open/Close			AB						
SW8052	QSW-K0003AJZZ+	V	Switch, Play			AB						
SW8053	QSW-K0003AJZZ+	V	Switch, Stop			AB						
SW8054	QSW-K0003AJZZ+	V	Switch, VCR/DVD			AB						
MISCELLANEOUS PARTS												
CN8052	QSOCN1095REZZ	V	Socket, 10Pin			AC						
CN8053	QSOCN1595REZZ	V	Socket, 15Pin			AD						
RC8001	RRMCU0233CEZZ	V	Remote Receiver			AF						
DUNTKB375TEV1 VCR OPERATION PWB UNIT												
CAPACITORS												
C8031	VCKYD41HB331KY	V	330p	50V	Ceramic	AA						
C8032	VCKYD41HB331KY	V	330p	50V	Ceramic	AA						
RESISTORS												
R8011	VRS-CY1JF272JY	V	2.7k	1/16W	Metal Oxide	AA						
R8012	VRS-CY1JF332JY	V	3.3k	1/16W	Metal Oxide	AA						
R8014	VRS-CY1JF332JY	V	3.3k	1/16W	Metal Oxide	AA						
R8015	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8016	VRS-CY1JF472JY	V	4.7k	1/16W	Metal Oxide	AA						
R8017	VRS-CY1JF822JY	V	8.2k	1/16W	Metal Oxide	AA						
R8019	VRS-CY1JF822JY	V	8.2k	1/16W	Metal Oxide	AA						
R8022	VRS-CY1JF103JY	V	10k	1/16W	Metal Oxide	AA						
R8023	VRD-RA2BE223JY	V	22k	1/8W	Carbon	AA						
R8024	VRD-RA2BE563JY	V	56k	1/8W	Carbon	AA						
R8026	VRS-CY1JF750JY	V	75	1/16W	Metal Oxide	AA						
BALUN												
FB8031	RBLN-0077TAZZY	V	Balun, BLN-0077TA			AB						
SWITCHES												
SW8055	QSW-K0003AJZZ+	V	Switch, Operate			AB						
SW8056	QSW-K0003AJZZ+	V	Switch, Stop/Eject			AB						
SW8057	QSW-K0003AJZZ+	V	Switch, CH-			AB						
SW8058	QSW-K0003AJZZ+	V	Switch, REW			AB						
SW8059	QSW-K0003AJZZ+	V	Switch, Play/x2			AB						
SW8060	QSW-K0003AJZZ+	V	Switch, CH+			AB						
SW8061	QSW-K0003AJZZ+	V	Switch, REC			AB						
MISCELLANEOUS PARTS												
CN8001	QSOCN0895REZZ	V	Socket, 8Pin			AC						
J8001	QJAKE0190CEZZ	V	Jack, 3Pin			AE						
J8002	QJAKE0257GEZZ	V	Jack, 3Pin			AE						
J8003	QJAKE0180CEZZ	V	Jack, 3Pin			AE						
DUNTKB376TEV1 POWER PWB UNIT												
INTEGRATED CIRCUITS												
IC903	VHiMM1431AT-1+	V	MM1431AT			AD						
IC908	VHiPQ30RV11-1	V	PQ30RV11			AF						
IC909	VHiPQ15RW11-1	V	PQ15RW11			AG						
IC911	VHIKA7808AP-1	V	KA7808AP			AE						
TRANSISTORS												
Q901	VS2SK2848/-1	V	2SK2848			AH						
Q902	VS2SC3576AC-1+	V	2SC3576AC			AC						
Q904	VS2PD601AR/-1Y	V	2PD601AR			AB						
Q933	VS2SB1443TV1E+	V	2SB1443TV, PC_10V SW			AE						
Q934	VSKRC102S/-1Y	V	KRC102S			AA						
Q935	VS2SB1443TV1E+	V	2SB1443TV, DVD_1.8V SW			AE						
Q936	VSKRC102S//1-Y	V	KRC102S			AA						
Q937	VS2SB1443TV1E+	V	2SB1443TV, DVD_3.3V SW			AE						
Q938	VSKRC102S//1-Y	V	KRC102S			AA						
Q939	VS2SA1271-Y-1+	V	2SA1271-Y, DVD D_5V SW			AC						
Q940	VSKRC103S//1-Y	V	KRC103S			AA						
Q941	VS2SA1271-Y-1+	V	2SA1271-Y, DVD PC_5V SW			AC						
Q942	VSKRC103S//1-Y	V	KRC103S			AA						
DIODES AND LED'S												
D901	VHDRL1N4005-1Y	V	RL1N4005			AC						
D902	VHDRL1N4005-1Y	V	RL1N4005			AC						
D903	VHDRL1N4005-1Y	V	RL1N4005			AC						
D904	VHDRL1N4005-1Y	V	RL1N4005			AC						
D905	RH-EX0617GEZZY	V	Zener, 6.2A			AA						
D907	VHD1SS119//1-Y	V	1SS119			AA						
D909	RH-EX0646GEZZY	V	Zener, 15V			AA						
D910	VHD10ELS4//1-Y	V	10ELS4			AD						
D913	VHD1SS119//1-Y	V	1SS119			AA						
D914	RH-EX0613GEZZY	V	Zener, 5.1V			AB						
D921	VHDFR154GL+1E	V	FR154GL+			AC						
D922	VHD15DF1FC/1E	V	15DF1FC			AD						
D923	VHD15DF1FC/1E	V	15DF1FC			AD						
D924	VHDSB240L++1E	V	SB240L++			AD						
D926	RH-DX0436CEZZ	V	DX0436CE			AG						
D929	VHD10ELS4//1-Y	V	10ELS4			AD						
D931	VHD1SS119//1-Y	V	1SS119			AA						
D932	VHD1SS119//1-Y	V	1SS119			AA						
D933	VHD1SS119//1-Y	V	1SS119			AA						
D934	VHD1SS119//1-Y	V	1SS119			AA						
D935	VHD1SS119//1-Y	V	1SS119			AA						
D936	RH-EX0649GEZZY	V	Zener			AB						
D956	RH-EX077GEZZY	V	Zener			AC						
IC901	RH-FXA003WJZZ	V	FXA003WJ			AD						
IC902	RH-FXA003WJZZ	V	FXA003WJ			AD						
COILS AND TRANSFORMER												
L901	RCILF0275GEZZ	V	Coil, CiLF0275GE			AF						
L922	RCILP0147GEZZ+	V	Coil, 10μH			AC						
L925	RCILP0175CEZZ+	V	Coil, 22μH			AD						
T901	RTRNWA050WJZZ	U	Transformer			AN						
CAPACITORS												
C901	RC-FZ082CGEZZ	V	0.1	250V	Film	AD						
C902	RC-FZ082CGEZZ	V	0.1	250V	Film	AD						
C903	RC-KZ0105GEZZ	V	2200p	250V	Ceramic	AD						
C904	RC-EZ0437GEZZ	V	68	400V	Electrolytic	AK						
C905	VCQYTA1HM222J+	V	2200p	50V	Mylar	AA						
C909	VCQYTA1HM562K+	V	5600p	50V	Mylar	AB						
C910	VCEA9M1HW475M+	V	4.7	50V	Electrolytic	AB						
C911	RC-KZ0112CEZZ	V	100p	2kV	Ceramic	AB						
C914	RC-KZ0102GEZZ	V	680p	250V	Ceramic	AE						

Ref. No.	Part No.	★	Description	Code
DUNTKB376TEV1 POWER PWB UNIT(Continued)				
⚠ C915	RC-KZ0102GEZZ	V 680p	250V Ceramic	AE
C921	VCEA0A1HW477M+	V 470	50V Electrolytic	AD
C922	VCEA0A1EW108M+	V 1000	25V Electrolytic	AD
C923	VCEA0A1CW108M+	V 1000	16V Electrolytic	AD
C924	VCEA0A1AW108M+	V 1000	10V Electrolytic	AC
C925	RC-EZ1075CEZZ	V 2200p	10V Electrolytic	AF
C927	VCQYTA1HM104K+	V 0.1	50V Mylar	AC
C928	VCQYTA1HM104K+	V 0.1	50V Mylar	AC
C929	VCEA0A2AW106M+	V 10	100V Electrolytic	AC
C932	VCEA0A1EW108M+	V 1000	25V Electrolytic	AD
C935	VCEA0A1AW228M	V 2200	10V Electrolytic	AD
C936	VCEA9M1HW105M+	V 1	50V Electrolytic	AB
C937	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C938	VCEA9M1HW105M+	V 1	50V Electrolytic	AB
C939	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C944	VCEA0A1HW107M+	V 100	50V Electrolytic	AB
C945	VCEA9M1CW107M+	V 100	16V Electrolytic	AB
C946	VCEA9M1HW225M+	V 2.2	50V Electrolytic	AB
C948	VCEA9M0JW227M+	V 220	6.3V Electrolytic	AB
C949	VCEA9M1HW105M+	V 1	50V Electrolytic	AB
C950	VCEA9M0JW476M+	V 47	6.3V Electrolytic	AB
C952	VCEA9M1CW226M+	V 22	16V Electrolytic	AB

RESISTORS

⚠ R901	VRD-RA2EE474JY	V 470k	1/4W	Carbon	AA
⚠ R902	RR-HZ0014GEZZY	V 12M	1W	Alumina Ceramic	AE
⚠ R903	VRS-CY1JF564JY	V 560k	1/16W	Metal Oxide	AA
⚠ R905	VRD-RM2HD222J	V 2.2k	1/2W	Carbon	AA
⚠ R907	VRD-RA2HD184J	V 180k	1/2W	Carbon	AA
⚠ R908	VRD-RA2HD184J	V 180k	1/2W	Carbon	AA
⚠ R910	VRN-VV3DB1R0J	V 1	2W	Metal Film	AB
R911	VRD-RA2BE273JY	V 27k	1/8W	Carbon	AA
R912	VRS-CY1JF223JY	V 22k	1/16W	Metal Oxide	AA
R914	VRS-CY1JF683JY	V 68k	1/16W	Metal Oxide	AA
R917	VRS-CY1JF223JY	V 22k	1/16W	Metal Oxide	AA
R919	VRS-CY1JF101JY	V 100	1/16W	Metal Oxide	AA
R921	VRS-CY1JF102JY	V 1k	1/16W	Metal Oxide	AA
R923	VRD-RA2BE102JY	V 1k	1/8W	Carbon	AA
R924	VRS-CY1JF102JY	V 1k	1/16W	Metal Oxide	AA
R925	VRS-CY1JF102JY	V 1k	1/16W	Metal Oxide	AA
R926	VRD-RA2BE121JY	V 120	1/8W	Carbon	AA
R927	VRS-CY1JF332JY	V 3.3k	1/16W	Metal Oxide	AA
R928	VRD-RA2BE102JY	V 1k	1/8W	Carbon	AA
R929	VRS-CY1JF100JY	V 10	1/16W	Metal Oxide	AA
R931	VRS-CY1JF102JY	V 1k	1/16W	Metal Oxide	AA
R932	VRS-CY1JF562JY	V 5.6k	1/16W	Metal Oxide	AA
R933	VRD-RA2BE103JY	V 10k	1/8W	Carbon	AA
R934	VRD-RM2HD102JY	V 1k	1/2W	Carbon	AA
R935	VRS-CY1JF103JY	V 10k	1/16W	Metal Oxide	AA
R936	VRD-RA2BE221JY	V 220	1/8W	Carbon	AA
R937	VRS-CY1JF103JY	V 10k	1/16W	Metal Oxide	AA
R938	VRD-RA2BE221JY	V 220	1/8W	Carbon	AA
R939	VRD-RA2BE103JY	V 10k	1/8W	Carbon	AA
R940	VRD-RA2BE102JY	V 1k	1/8W	Carbon	AA
R941	VRD-RA2BE103JY	V 10k	1/8W	Carbon	AA
R942	VRD-RA2BE102JY	V 1k	1/8W	Carbon	AA
R943	VRS-CY1JF683JY	V 68k	1/16W	Metal Oxide	AA
R944	VRS-CY1JF102FY	V 1k	1/16W	Metal Oxide	AA
R945	VRS-CY1JF222FY	V 2.2k	1/16W	Metal Oxide	AA
R946	VRS-CY1JF681FY	V 680	1/16W	Metal Oxide	AA
R947	VRS-CY1JF272FY	V 2.7k	1/16W	Metal Oxide	AA
R950	VRS-CY1JF222JY	V 2.2k	1/16W	Metal Oxide	AA
R952	VRD-RA2BE222JY	V 2.2k	1/8W	Carbon	AA
R956	VRS-CY1JF472JY	V 4.7k	1/16W	Metal Oxide	AA
R957	VRS-CY1JF104JY	V 100k	1/16W	Metal Oxide	AA

BALUNES

⚠ FB901	RBLN-0090GEZZY	V Balun, BLN-0090GE	AB
FB921	RBLN-0090GEZZY	V Balun, BLN-0090GE	AB
FB922	RBLN-0090GEZZY	V Balun, BLN-0090GE	AB

Ref. No.	Part No.	★	Description	Code
MISCELLANEOUS PARTS				
CN201	QPLGN0978GEZZ	V	Plug, 9Pin	AC
⚠ F901	QFS-C2025CEZZ	V	Fuse, 250V/2A	AD
⚠ FH901	QFSHD1017CEZZ+	V	Fuse Holder	AC
⚠ FH902	QFSHD1018CEZZ+	V	Fuse Holder	AC
P901	QPLGN0269GEZZ	V	Plug, 2Pin	AB
P902	QPLGN1278GEZZ	V	Plug, 12Pin	AC
⚠ W901	PRDAF5021AJFW	V	Heat Sink, Q901	AE
⚠ W902	XBSD30P10KS0	V	Screw	AA
W908	PRDAR0083PEFW	V	Heat Sink, IC908	AD
W909	XBSD30P10KS0	V	Screw	AA

MECHANISM PARTS (DVD PART)

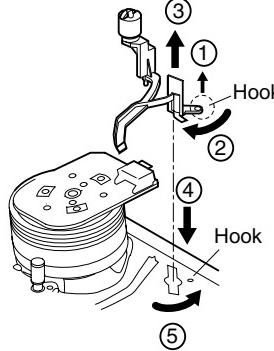
401	CMECD0211HJV2	V	Mecha Chasis Ass'y	BS
401-1	LX-BZ3189GEZZ	V	Guide Axis Pressing Screw, x4	AB
401-2	NGERH1330AJZZ	V	Relay Gear1	AC
401-3	NGERH1341AJ00	V	Relay Gear2	AC
401-4	LX-WZ1030GE00	V	Relay Gear Washer	AA
401-5	LX-BZ3163GEFN	V	Motor Screw, x2	AC
401-6	QSW-M0066AJZZ	V	In SW	AD
401-7	DUNTKB233TEV1	—	Sled Motor PWB Unit	—
401-8	RMOTV2022AJZZ	V	Sled Motor	AK
401-9	NGERH1333AJZZ	V	Sled Motor Gear	AB
401-10	NGERR1021AJZZ	V	Double Action Rack	AC
401-11	MSPRC0244AJZZ	V	Rack Spring	AB
401-12	NGERR1024AJZZ	V	Rack	AC
401-13	LX-HZ0083TAFF	V	Rack Fixing Screw	AA
401-14	QPLGN0680GEZZ	V	Plug	AB
409	PCUSG0126AJZZ	V	Insulator, x4	AD
410	LX-HZ3117AJZZ	V	Traverse Fixing Screw, x6	AC
413	QCNW-8552AJZZ	V	Sled Wire	AF
418	QCNW-A362WJZZ	V	Pickup Relay FFC	AD
419	MSLiP0014AJZZ	V	Slide Rack	AD
420	LHLDZ2144AJZZ	V	Traverse Holder	AD
421	QCNW-8375AJZZ	V	Loading Wire	AD
422	LHLDW1033CE00	V	Nylon Band Holder	AA
423	RMOTM1097AJZZ	V	Loading Motor	AM
424	NPLYM0001AJZZ	V	Loading Motor Pulley	AB
425	QSW-B0011AJZZ	V	Loading Motor Switch	AE
426	NBLTK0068AJZZ	V	Loading Belt	AD
427	NGERH1332AJZZ	V	Pulley Gear	AC
428	NGERP1016AJZZ	V	Tray Pinion	AC
429	LCHSMA001WJZZ	V	Base Chassis	AL
431	LCRA-0012GEZZ	V	Disc Clamper	AF
432	LX-WZ0102GEFD	V	York Washer	AB
433	PMAGS1001GEZZ	V	Clamper Magnet	AF
434	GCOVA2164AJZZ	V	Tray	AH
435	LX-BZ3434AJFD	V	Loading Motor Fixing Screw, x2	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
MECHANISM PARTS (VCR PART)									
501	LBNDK1021AJZZ	V	Tension Band Ass'y	AC	203	LX-HZ3082GEZZ	V	Screw WSW 2.6+6(AC)	AD
502	LBOSZ1022AJZZ	V	Tension Arm Boss	AB	204	XJPSD26P06000	V	Screw 2.6+6S(CAPST), x3	AA
504	LBOSZ1006AJZZ	V	Cassette Stay L	AD	205	LX-RZ3015GEFJ	V	CS Washer, x2	AB
505	LCHSM0186AJZZ	V	Main Chassis Ass'y	AQ	208	XRESJ30-06000	V	E-Ring(E-3)	AA
506	LHLDZA049WJZZ	V	Loading Motor Block	AD	209	XWHJZ31-03052	V	Washer W3.1 P-5.2-0.3, x2	AC
507	LPOLM0085GEZZ	V	Supply Pole Base Ass'y	AF	210	XWHJZ31-04052	V	Washer W3.1 P-5.2-0.4, x2	AC
508	LPOLM0086GEZZ	V	Take-up Pole Base Ass'y	AF	211	XWHJZ31-05052	V	Washer W3.1 P-5.2-0.5, x2	AC
509	MLEVF0544AJZZ	V	Tension Arm Ass'y	AE	212	XWHJZ31-06052	V	Washer W3.1 P-5.2-0.6, x2	AC
510	MARMP0061AJZZ	V	Take-up Loading Arm	AC	213	XWHJZ31-07052	V	Washer W3.1 P-5.2-0.7, x2	AC
511	MARMP0062AJZZ	V	Supply Loading Arm	AC	214	XWHJZ31-08052	V	Washer W3.1 P-5.2-0.8, x2	AC
512	MLEVF0545GEZZ	V	Pinch Roller Lever Ass'y	AM	215	XHPSD26P05WS0	V	Loading Motor Block Screw	AC
513	NBRGP0031AJZZ	V	Pinch Guide Bearing	AB	216	LX-WZ1041GE00	V	Washer CW 2-6-0.5	AA
516	LANGFA008WJFW	V	A/C Head Plate	AD	219	LX-WZ1098GE00	V	Washer CW 2.6-4.7-0.5	AB
517	LHLDW1895AJZZ	V	A/C Head FFC Holder	AB	221	XBPSD26P06000	V	Azimuth Adjusting Screw	AA
518	MLEVP0347AJZZ	V	Pinch Double Action Lever	AC	222	XBPSD26P14000	V	A/C Head Screw	AA
519	MLEVP0344AJZZ	V	Reverse Guide Lever Ass'y	AE	224	XBPSD30P06000	V	Screw 3P+6S(DRM FIX), x3	AA
520	MLEVP0342AJZZ	V	Take-up Loading Link	AB					
521	MLEVP0343AJZZ	V	Supply Loading Link	AB					
523	MLEVP0346AJZZ	V	Clutch Lever	AC					
524	MLEVP0348AJZZ	V	Supply Main Brake	AB					
525	MLEVP0349AJZZ	V	Take-up Main Brake Ass'y	AC					
527	MSLIP0016AJZZ	V	Sifter	AD	300	CHLDX3083TEV1	V	Cassette Housing Control Ass'y	AP
528	MSPRDA006WJFJ	V	Reverse Guide Spring	AB	301	LANGF9661AJFW	V	Upper Plate	AD
529	MSPRD0213AJFJ	V	Take-up Loading Double Action Spring	AB	302	LHLDX1049AJ00	V	Frame (L)	AD
530	MSPRD0214AJFJ	V	Supply Loading Double Action Spring	AB	303	LHLDX1050AJ00	V	Frame (R)	AE
531	MSPRT0439AJFJ	V	Pinch Double Action Spring	AB	304	LHLDX1051AJZZ	V	Holder (L)	AC
532	MSPRT0438AJFJ	V	Main Brake Spring	AB	305	LHLDX1052AJZZ	V	Holder (R)	AC
533	MSPRT0416AJFJ	V	Tension Spring	AD	306	MARMP0063AJZZ	V	Drive Arm L	AB
534	NBLTK0069AJ00	V	H-Reel Belt	AC	307	MARMP0064AJZZ	V	Drive Arm R	AC
535	NDAIV1093AJ00	V	Reel Disc, x2	AC	308	MLEVP0350AJZZ	V	Drive Lever	AD
536	NGERH1342AJZZ	V	Loading Connect Gear	AB	309	MLEVP0351AJZZ	V	Proof Lever	AC
537	NGERH1344AJZZ	V	Master Cam	AD	310	MLEVP0352AJ00	V	Sensor Plate	AB
538	NGERH1343AJZZ	V	Synchro Gear	AB	311	MLEVP0353AJ00	V	Open Lever	AB
541	NGERH1345AJZZ	V	Pinch Drive Cam	AC	312	MSLiF0079AJFW	V	Slider	AD
543	NGERH1299AJZZ	V	Reel Relay Gear, x2	AE	313	MSPRD0212AJFJ	V	Drive Arm Spring	AB
544	NGERW1081AJZZ	V	Worm Gear	AB	314	MSPRP0175AJFJ	V	Cassette Spring, x2	AE
545	NGERW1082AJZZ	V	Worm Wheel Gear	AC	315	MSPRD0215AJFJ	V	Proof Lever Spring	AB
546	NiDR-0036AJZZ	V	Idler Ass'y	AD	317	NSFTD0065AJFD	V	Main Shaft	AD
548	NPLYV0173AJZZ	V	Limiter Pulley Ass'y	AF					
549	NROLP0131GEZZ	V	Guide Roller, x2	AL					
551	MSPRC0217AJFJ	V	Guide Roller Spring, x2	AC					
552	PREFL1025AJZZ	V	Light Guide	AC					
553	QCNW-A245WJZZ	V	FFC for Drum Motor	AE					
555	QCNW-A247WJZZ	V	FFC for A/C Head	AD					
556	QPWBF112WJZZ	V	A/C Head PWB	AC					
558	RHEDTA001WJZZ	V	Full Erase Head	AH					
559	RHEDUA002WJZZ	V	A/C Head Ass'y	AP					
560	RMOTMA001WJZZ	V	Loading Motor	AK					
561	RMOTNA001WJZZ	V	Capstan Motor	AX					
562	RMOTP1139GEZZ	V	Drum Drive Motor	AT					
563	DDRMW0043TEX2	V	Upper and Lower Drum Ass'y	BH					
564	QCNW-A244WJZZ	V	Loading Motor Wire	AB					
565	QBRSK0041GEZZ	V	Drum Earth Brush Ass'y	AD					
566	XBPSD26P04500	V	Screw 2.6P+4.5S(D/M), x6	AB					
567	PGIDMO187AJZZ	V	Open Guide	AC					
570	MSPRC0228AJFJ	V	Azimuth Spring	AB					
571	MSPRC0224AJFJ	V	Height Adjusting Spring	AC					
572	LHLDW1894AJZZ	V	R/T FFC Holder	AB					
573	MLEVP0355AJZZ	V	H-Auto Head Cleaner Ass'y	AC					
574	MSPRC0213AJFJ	V	Earth Spring	AC					

SCREW, NUTS AND WASHERS

201	XBPSD26P08000	V	A/C Head Screw 2.6P+8S	AA
202	LX-BZ3096GEFD	V	Tilt Adjusting Screw	AA

• Replacing the AHC (Auto Head Cleaner)



• How to remove

Turn the H-AHC ass'y in the direction of (2), lifting the hook of the H-AHC ass'y in the direction of (1). When the hook is undone, pull out the H-AHC ass'y in the direction of (3).

• How to install

Insert the H-AHC ass'y into the hole on the chassis in the direction of (4) and turn it in the direction of (5). Check that the chassis hook and hook of the H-AHC ass'y are engaged.

* Caution when replacing

- Do not allow the AHC ass'y to contact with the drum.
- Do not contaminate the cleaner section of the AHC ass'y with grease, etc.

Ref. No.	Part No.	★	Description	Code
CABINET PARTS				
2	CCABAA093TEV1	U	Top Cabinet Ass'y	
21	TЛАBM0167UMZZ	U	Model Label	
23	DUNTKB372TEV1	-	Terminal PWB Unit	—
24	DUNTKB374TEV1	-	DVD Operation PWB Unit	—
25	DUNTKB375TEV1	-	VCR Operation PWB Unit	—
26	DUNTKB376TEV1	-	Power PWB Unit	—
27	DUNTKB209TE6H	-	DVD Main PWB Unit	—
28	DUNTKB210TEV4	-	VCR Main PWB Unit (NC70H)	—
28	DUNTKB210TEV5	-	VCR Main PWB Unit (NC65H)	—
28	DUNTKB210TEV7	-	VCR Main PWB Unit (NC65S)	—
29	GBDYUA007WJFW	V	Bottom Plate	AM
30	GCABB1254AJNZ	V	Main Frame	AS
31	GCOVAA099WJZZ	U	Antenna Terminal Cover	
32	LANGF9654AJFW	V	DVD REINF. Angle	AC
33	LANGF9662AJFW	V	Angle(DVD)	AE
34	LHLDW1072GEZZ	V	Wire Holder	AA
35	LHLDW1151AJZZ	V	Edge Holder	AC
38	PGUMS0026AJZZ	V	Foot Rubber, x2	AB
40	PSLDM4595AJFW	V	DVD Shield(lower)	AD
41	TЛАBSA005WJZZ	V	L-Caution Label	AB
42	QCNW-A692WJZZ	V	Connecting Cord	AF
43	QCNW-A762WJZZ	U	Connecting Cord	
44	QCNW-A358WJZZ	V	Connecting Cord	AD
45	QCNW-A765WJZZ	V	Connecting Cord	AE
46	QCNW-A360WJZZ	V	Connecting Cord	AC
47	QCNW-A361WJZZ	V	Connecting Cord	AG
48	QCNW-A401WJZZ	V	Connecting Cord(PWR-VCR)	AG
49	QCNW-A596WJZZ	U	Connecting Cord, x2	
50	QCNW-A597WJZZ	U	Connecting Cord	
51	QCNW-A598WJZZ	U	Connecting Cord	
55	HDECQA032WJSA	V	Tray Decoration Cover (NC65H/S)	AF
55	HDECQA032WJSC	U	Tray Decoration Cover (NC70H)	
58	QCNW-A362WJZZ	V	Pickup Relay FFC	AD
60	PSPAZA074WJZZ	U	Spacer	
61	QEAPPA017WJFW	U	RCA Shield	
62	GCOVAA146WJZZ	U	Rear Panel (NC70H)	
62	GCOVAA147WJZZ	U	Rear Panel (NC65H/S)	
63	QEAPPA046WJFW	U	Earth Plate	
64	LHLDZA052WJZZ	U	Rear PWB Holder	
70	PSPAZA031WJZZ	V	DVD Spacer	AD
71	QACCV2009AJZZ	V	AC Cord(NC65S)	AM
71	QACCB5014UMZZ	U	AC Cord(NC65H/70H)	
a	LX-HZ3087GEFN	V	Screw for Mecha/Ant.	AB
b	LX-HZ3099GEFD	V	Screw for DVD Main, x4	AB
c	XEBS30P12000	V	Screw for DVD/Mecha, x20	AA
d	XEPSD30P14XS0	V	Screw for Mecha&Ant, x2	AB
e	XEPSF30P12000	V	Screw for Rear Panel, x6 (NC65H/S)	AA
e	XEPSF30P12000	V	Screw for Rear Panel, x7 (NC70H)	AA
f	XHPSD26P06WS0	V	Screw for Cassete Control, x2	AA
g	XHPSD30P06WS0	V	Screw for VTR Main/BTM	AA
h	XHPFS30P10WS0	V	Screw, x3	AA
i	LX-HZ3096GEZZ	V	Screw for Top Cab, x7	AB
j	XEPSD30P14XS0	V	Screw for Mecha/PNL, x4	AB
k	XEBS30P12000	V	Screw for Earth Plate	AA

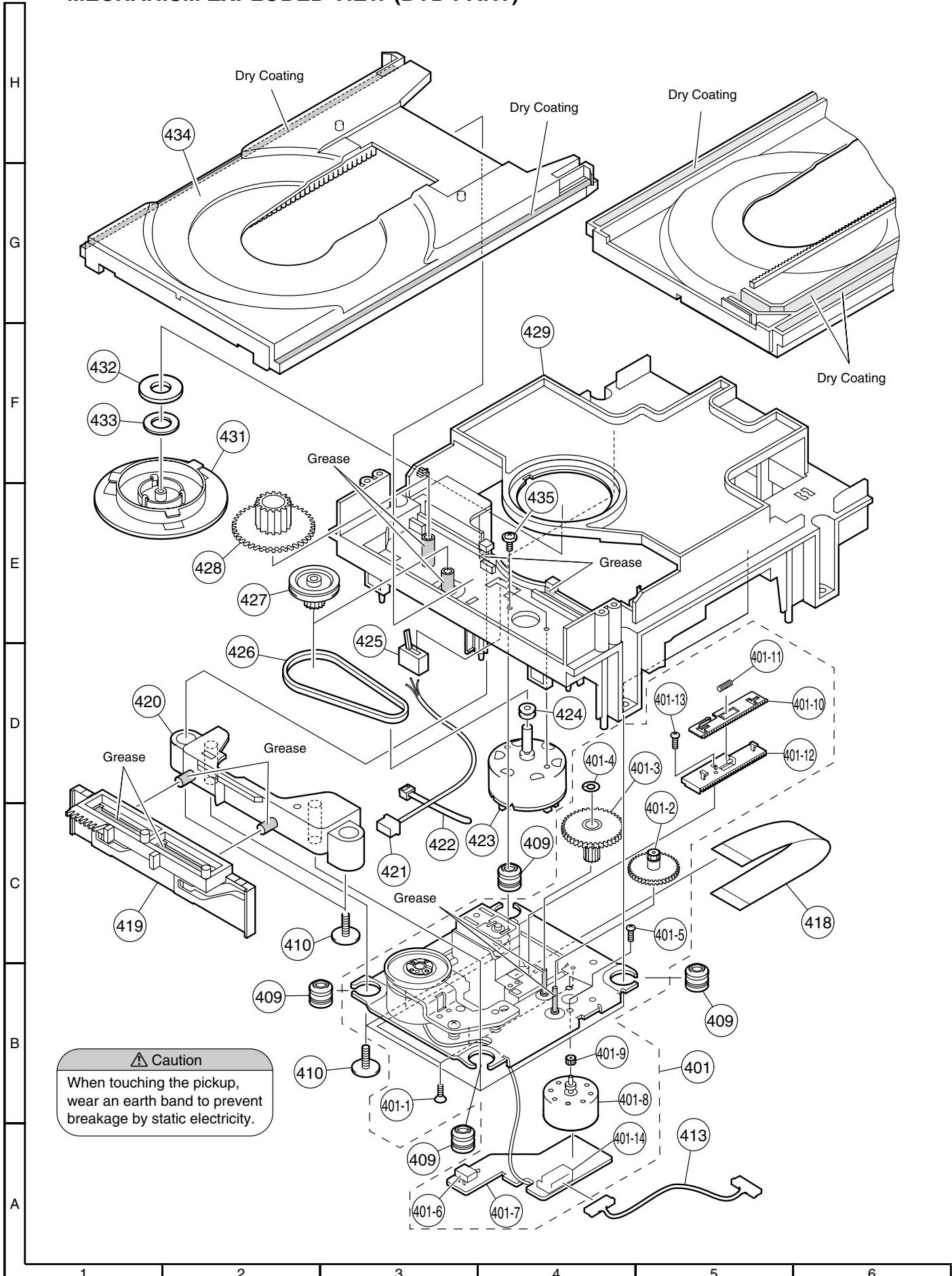
Ref. No.	Part No.	★	Description	Code
FRONT PANEL PARTS				
600	CPNLCA044TEV1	U	Front Panel Ass'y (NC70H)	
600	CPNLCA044TEV2	U	Front Panel Ass'y (NC65H)	
600	CPNLCA044TEV5	U	Front Panel Ass'y (NC65S)	
600-A	CBTN-3177TEV2	U	Selector Button Ass'y	
600-1	HDECQA033WJSA	V	Selector Button Dec.	AE
600-2	HDECQA011WJSA	V	Ring Dec.	AE
600-3	JBTN-3177AJSA	V	Selector Button	AD
600-4	PSHEPA001WJZZ	V	DEF Sheet	AC
600-5	HDECQ2321AJSA	V	LED Cover	AC
600-6	HDECQA072WJSA	U	Cassette Flap(NC65H)	
600-6	HDECQA072WJSB	U	Cassette Flap(NC70H)	
600-6	HDECQA093WJSA	U	Cassette Flap(NC65S)	
600-7	HDECQA070WJSB	U	Front Dec.(NC70H)	
600-7	HDECQA098WJSA	U	Front Dec.(NC65H/S)	
600-8	HDECQA031WJSA	V	Window Dec.	AH
600-9	HiNDPA041WJSA	V	Indicator(VCR)	AC
600-10	HiNDPA042WJSA	V	Indicator(DVD)	AD
600-11	JBTN-A017WJSA	V	VCR Mode Button (NC65H/S)	AE
600-11	JBTN-A017WJSC	U	VCR Mode Button (NC70H)	
600-12	JBTN-3175AJSA	V	DVD Mode Button (NC65H/S)	AE
600-12	JBTN-3175AJSD	U	DVD Mode Button (NC70H)	
600-13	MSPRD0105AJFJ	V	Cassette Flap Spring	AB
600-14	PGUMS0042AJZZ	V	Spacer	AA

SUPPLIED ACCESSORIES		
QCNW-7870UMZZ	V	RF Cable
QCNW-8077UMZZ	V	21 Pin Cable
RRMCGA054WJSA	U	Remote Control Unit (NC70H)
RRMCGA055WJSA	U	Remote Control Unit (NC65S)
RRMCGA069WJSA	U	Remote Control Unit (NC65H)
TiNS-A220WJZZ	U	Operation Manual(NC70H)
TiNS-A221WJZZ	U	Operation Manual(NC70H)
TiNS-A222WJZZ	U	Operation Manual(NC65H)
TiNS-A223WJZZ	U	Operation Manual(NC65H)
TiNS-A268WJZZ	U	Operation Manual(NC65S)
TiNS-A269WJZZ	U	Operation Manual(NC65S)

ACCESSORY (NOT REPLACEMENT ITEM)		
TGAN-3170UMZZ	—	Guarantee Card

PACKING PARTS (NOT REPLACEMENT ITEM)		
SPAKCA168WJZZ	—	Packing Case (NC70H)
SPAKCA169WJZZ	—	Packing Case (NC65H/S)
SPAKP0002UMZZ	—	Wrapping Paper
SPAKX1144UMZZ	—	Packing Add. (Front)
SPAKX1146UMZZ	—	Packing Add. (Rear)
TLABK0016UMZZ	—	Label

MECHANISM EXPLODED VIEW (DVD PART)



MECHANISM EXPLODED VIEW (VCR PART)

Grease []

H

G

F

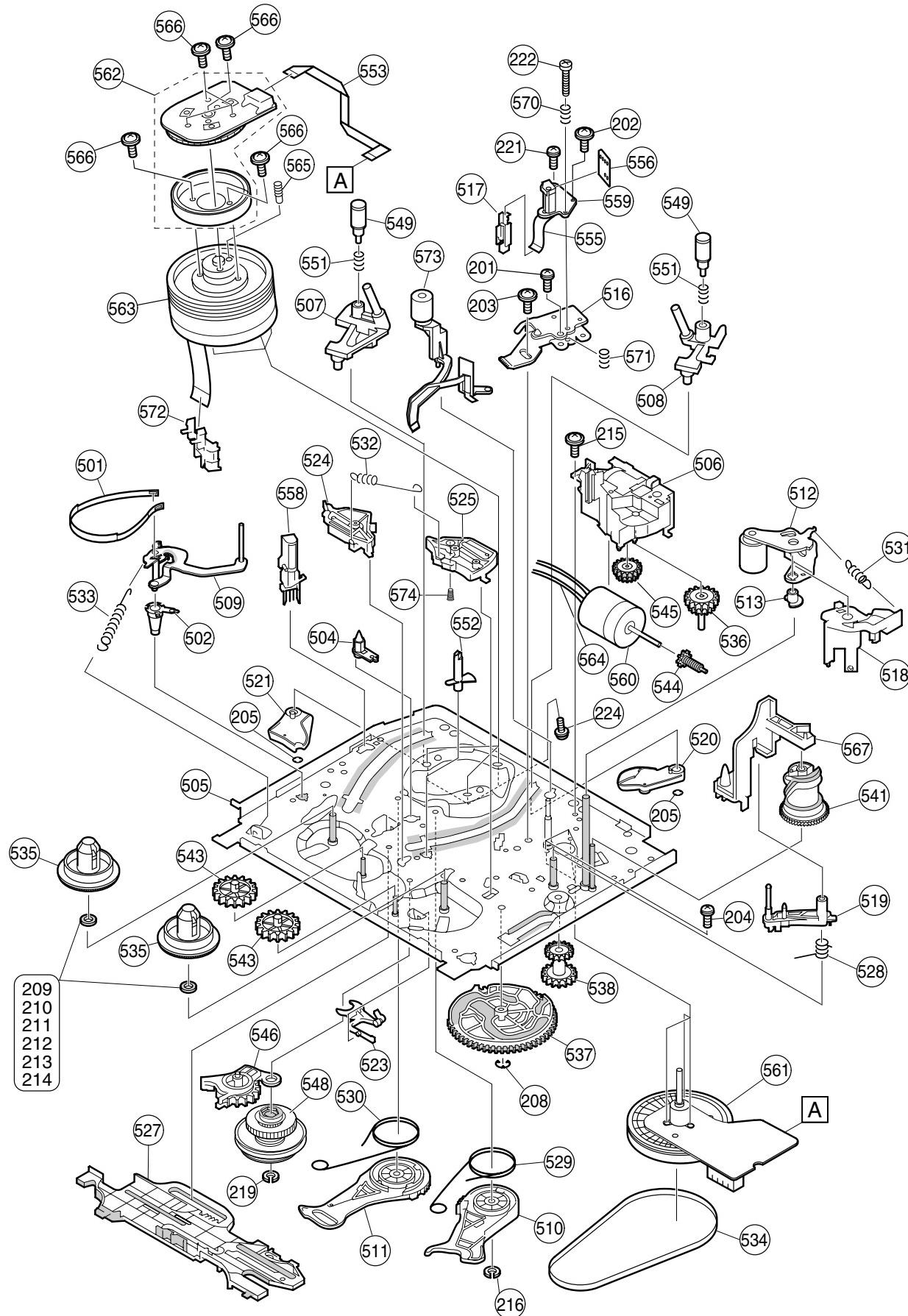
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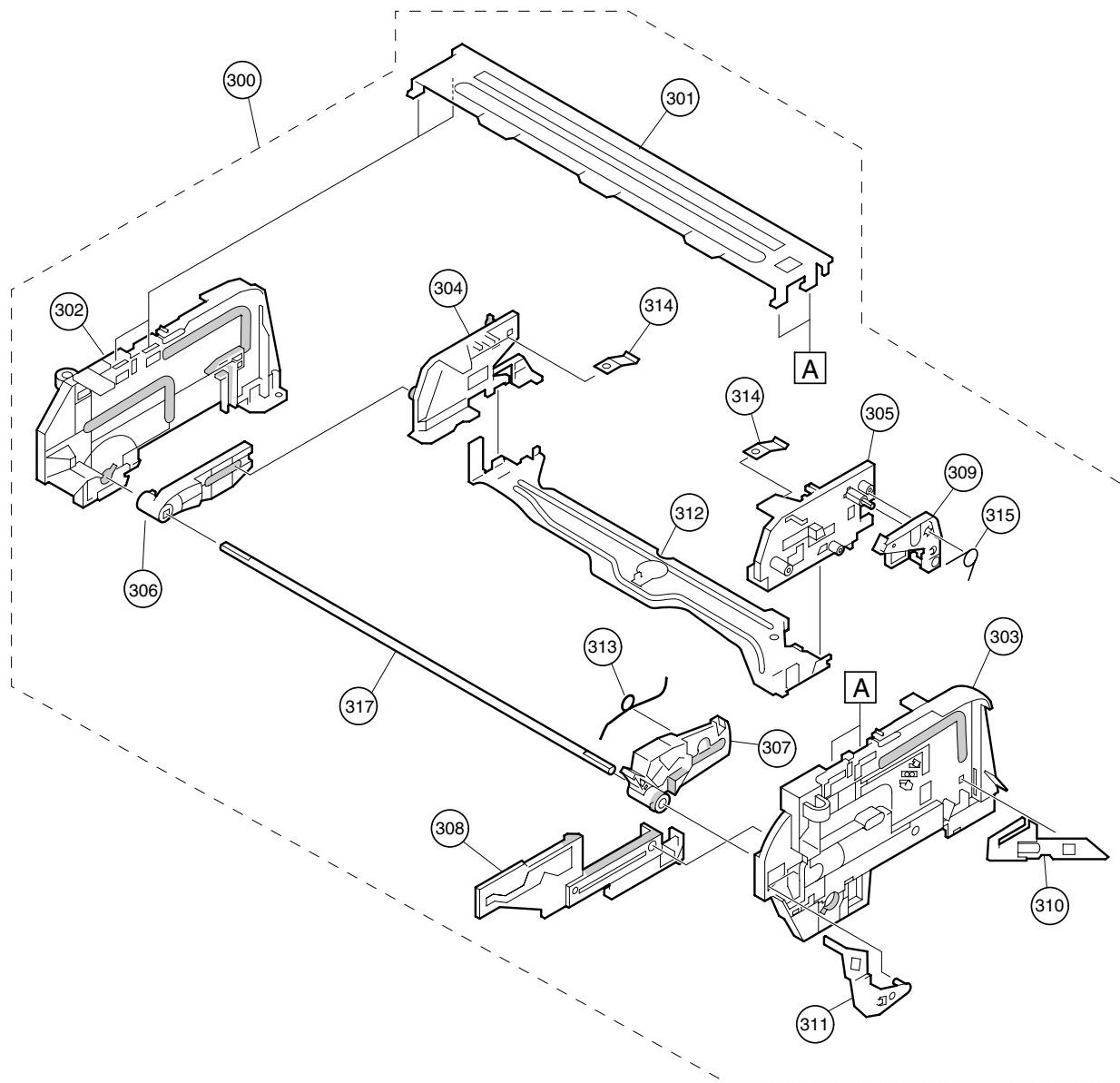
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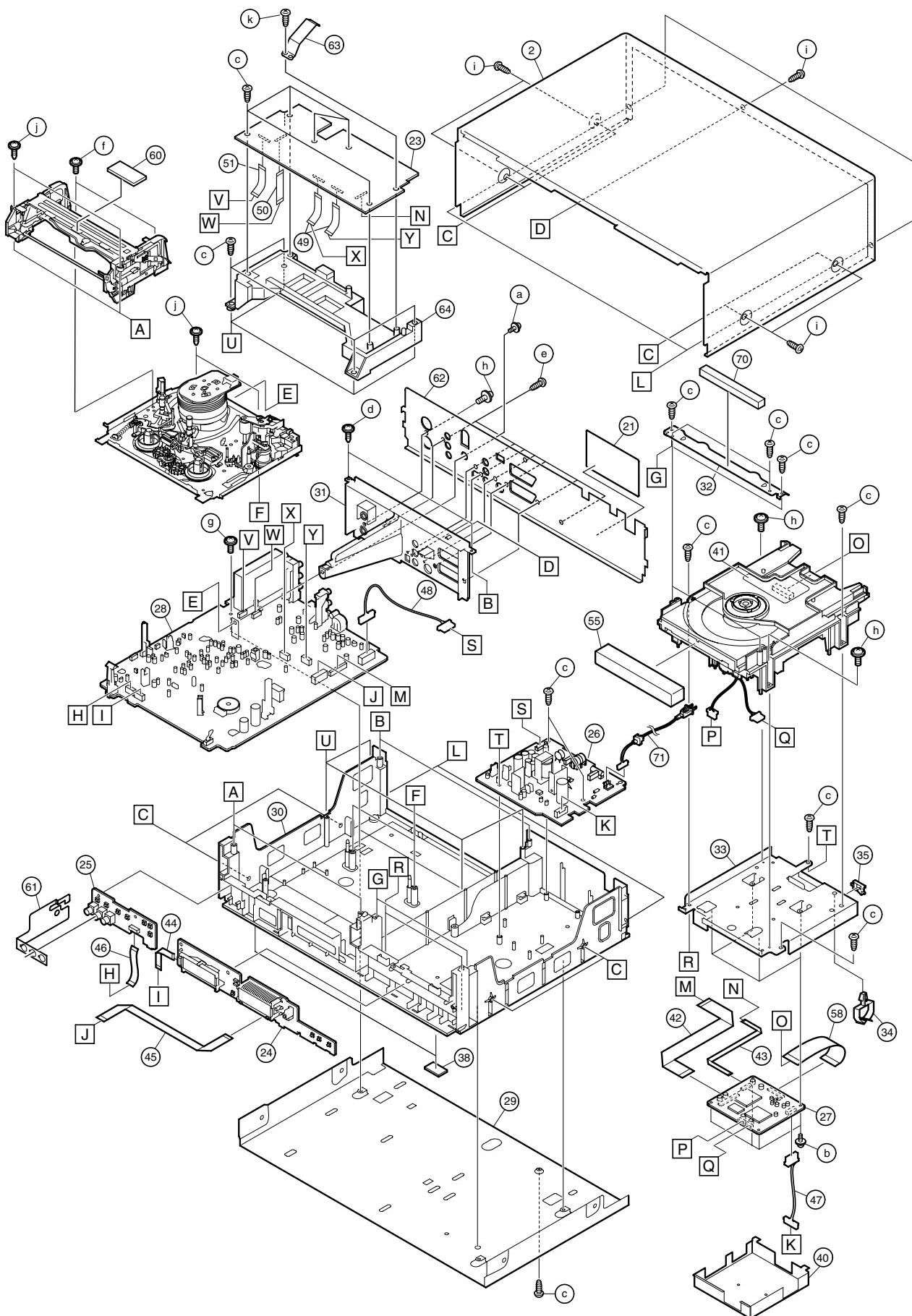


CASSETTE HOUSING CONTROL EXPLODED VIEW

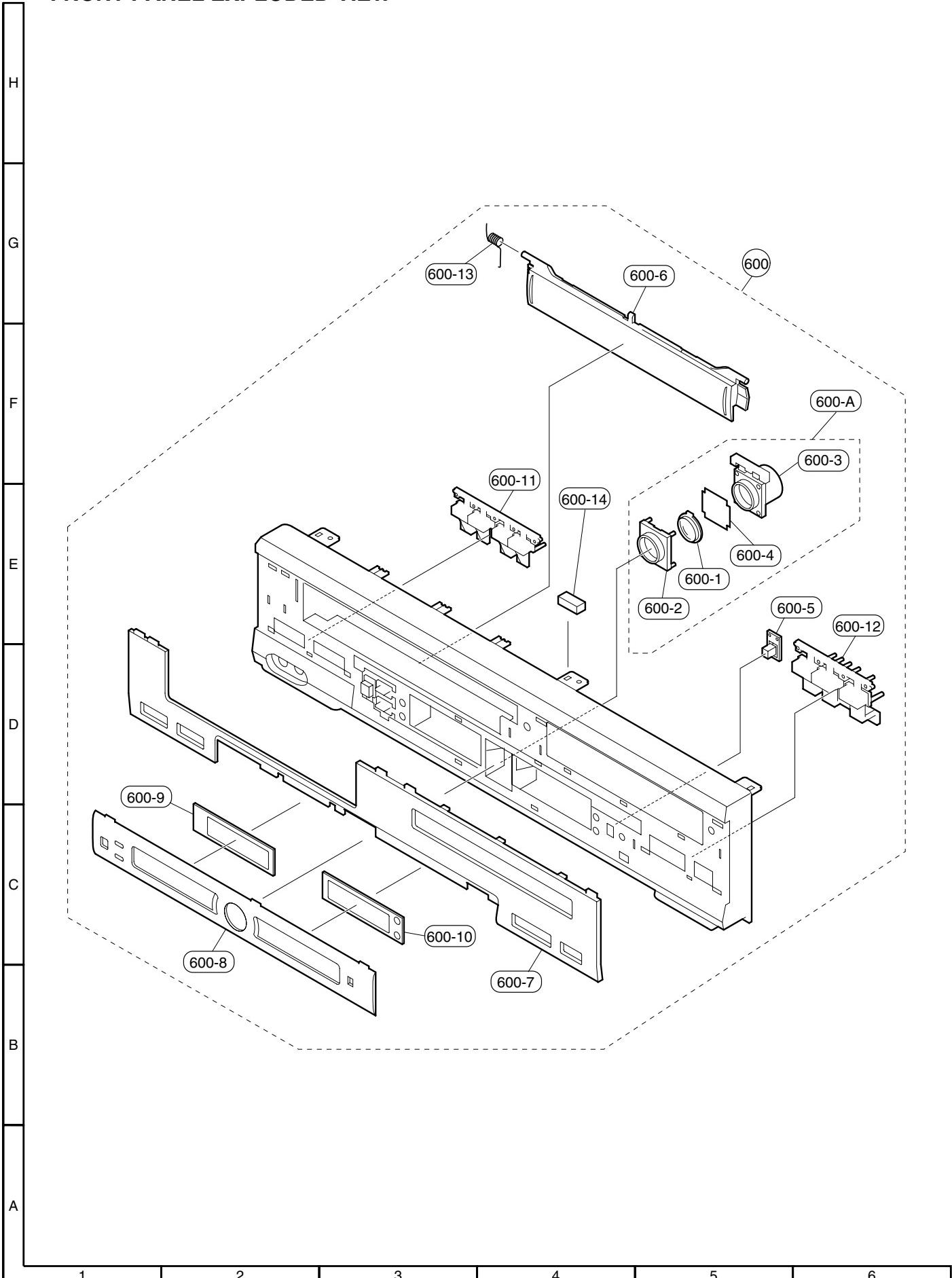
Grease



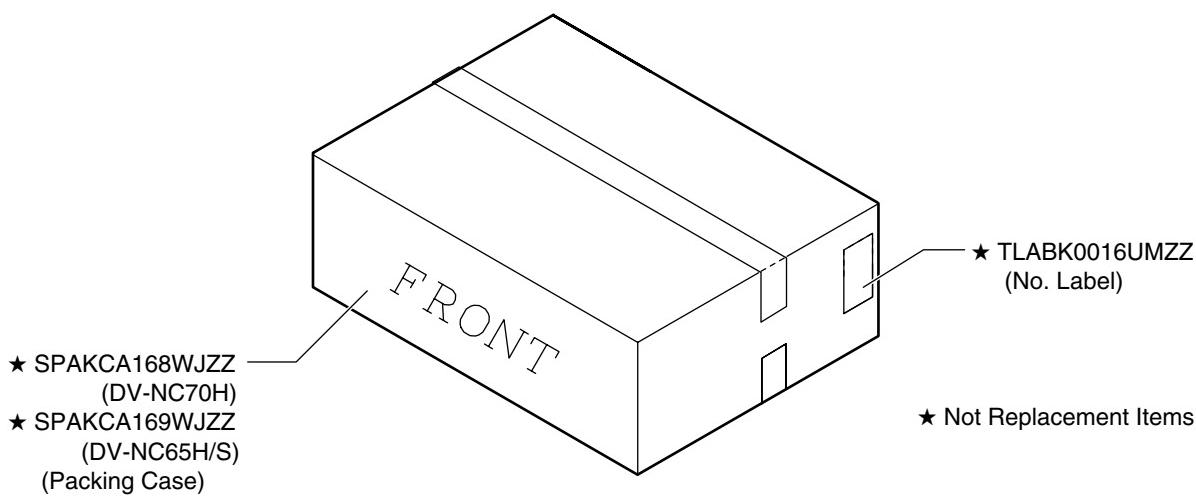
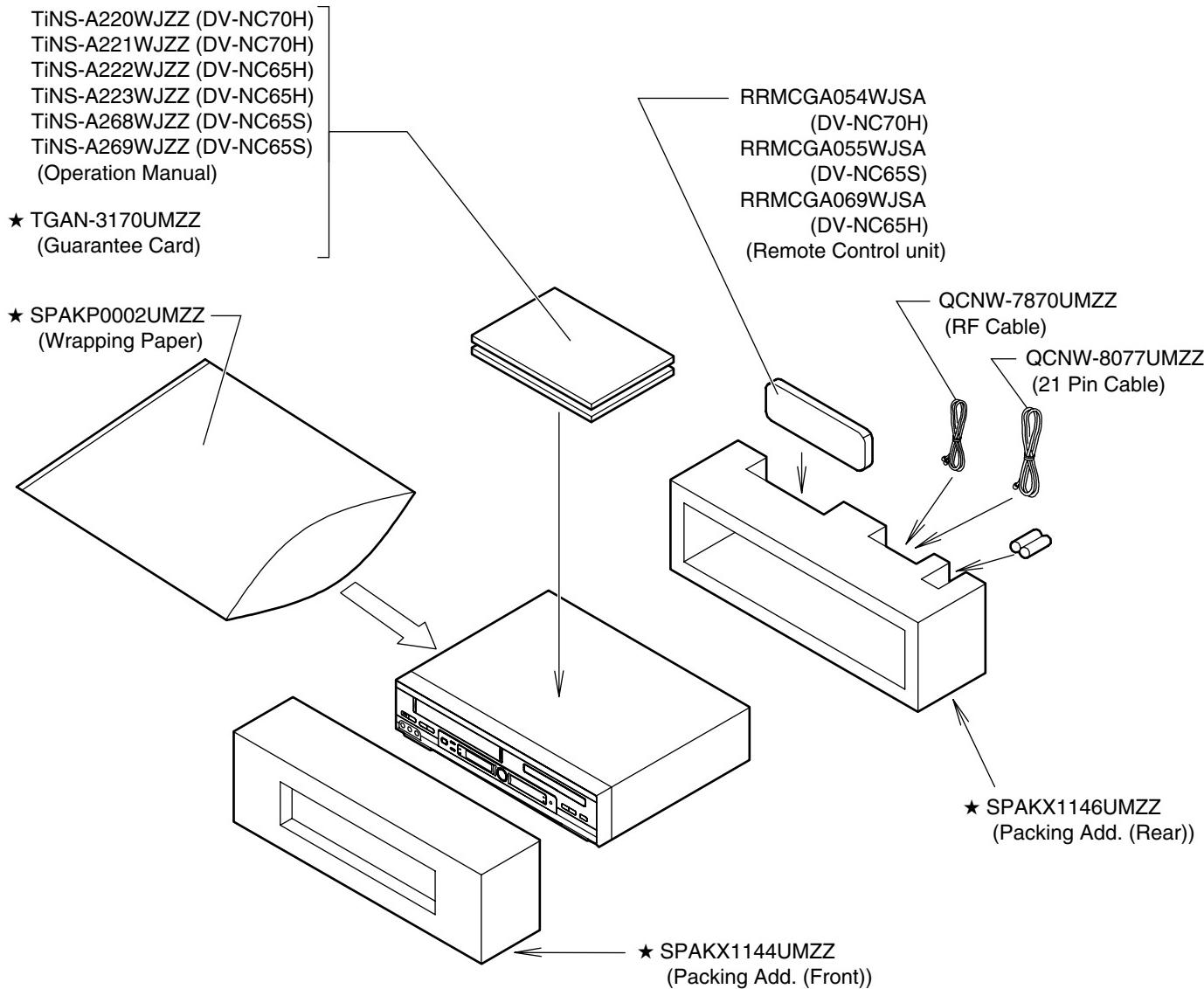
CABINET EXPLODED VIEW



FRONT PANEL EXPLODED VIEW



16. PACKING OF THE SET



DV-NC65H/S
DV-NC70H

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